

AZURE BIOSYSTEMS PRODUCT CATALOG



















ABOUT AZURE BIOSYSTEMS

At Azure Biosystems, we develop easy-to-use, high-performance imaging systems and high-quality reagents for life science research. By bringing a fresh approach to instrument design, technology, and user interface, we move past incremental improvements and go straight to innovations that substantially advance what a scientist can do. In focusing on getting the highest quality data from these instruments—low backgrounds, sensitive detection, robust quantitation—we've created a line of reagents that consistently delivers reproducible results and streamlines workflows.

Providing scientists around the globe with high-caliber products for life science research, Azure Biosystems' innovations open the door to boundless scientific insights.

Learn more at azurebiosystems.com.



Sapphire Biomolecular Imager



Azure Imaging Systems



Cielo Real-time PCR



Ao Absorbance Microplate Reader



Reagents & Consumables

Download our free Western Blotting eBook at www.azurebiosystems.com/guidebook.

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QUICKLY FIND THE SOLUTION TO YOUR WESTERN WOES



Sensitivity

Reagents optimized to increase limit of detection.



Lower Background

Reagents optimized to lower background for cleaner blots.



Save Time

Products designed to save time.



Quantitation

Products designed to increase quantitative accuracy.



Sample

Reagents that are available to sample.

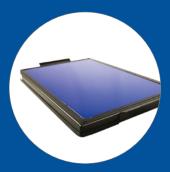


IMAGING









The next generation of laser-based imaging

Breakthrough image capture and analysis

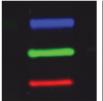
The Sapphire Biomolecular Imager is a next generation laser scanning system that provides you with exceptional data quality through extremely sensitive detection, ultra high resolution and broad linear dynamic range.

This system supports long and short wavelengths of near infrared fluorescence (NIR), red/green/blue (RGB) imaging, chemiluminescent imaging, phosphor imaging as well as optical densitometry (OD) of proteins in stained gels.*

- Improved multiplex fluorescent detection
- Chemiluminescence imaging, surpassing film
- Higher sensitivity for lower limits of detection (femtograms)
- Broad linear dynamic range for accurate quantitation
- Ease of use with intuitive control software





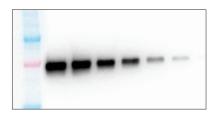




Fluorescence Imaging

Improve Your Quantitation

- Stable fluorescent signals enable reliable quantitation of weak and strong bands
- Probe for multiple proteins on a single blot, and get more results from each sample



Chemiluminescence Imaging

Enhance your Detection

- Femtogram detection of protein
- The speed and sensitivity of traditional film with 4X the dynamic range



Phosphor Imaging

Improve Your Flexibility

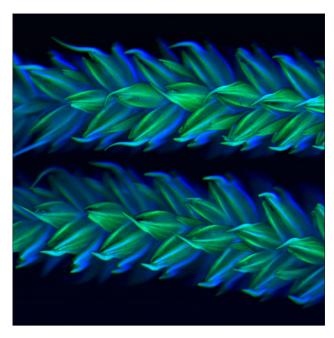
- Scan storage phosphor screens for filmless autoradiography
- Wide dynamic range for sensitive detection

^{*}Patent pending

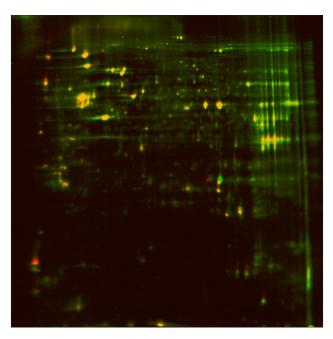
| Specifications | Sapphire NIR | Sapphire RGB | Sapphire RGBNIR | Sapphire PI | | |
|------------------------------|--|--|---|----------------------|--|--|
| Part number | IS1024 | IS1025 | IS1026 | IS1027 | | |
| Laser excitation wavelengths | 685, 784 | 488, 520, 658 | 488, 520, 658, 784 | 658 | | |
| Bit depth | | 16 | bit | | | |
| Scanning area | | 25 cm X 25 cm | | | | |
| Scanning mode | | Simultaneous or Sequentia | I | Phosphor Imaging | | |
| Resolution | | 10 micron – | 1000 micron | | | |
| Detectors | Avalanche Photodiode | Photomultiplier Tube, | Avalanche Photodiode | Photomultiplier Tube | | |
| Scanning speed | | 50 | cm/s | | | |
| Filters | Red 725BP40, IR 832BP37 | Blue 518BP22, Green 565BP24, Red 710BP40 | Blue 518BP22, Green 565BP24, Red 710BP40, IR 832BP37 | 390BP40 | | |
| Dimensions (W X H X D) | | 75 cm X 45 cm X 70 cm | | | | |
| Weight | | 140 lbs | | | | |
| Power requirements | | 100 – 240 VAC ± 10%, 50/60 Hz | | | | |
| Computer | Wind | lows 10 laptop or Window | s Pro desktop PC and 4K mo | onitor | | |
| Q-Module | Optional Laser excitation wavelength: 520 Filters: Green 565BP24 | | N/A | | | |
| Chemiluminescent Upgrade | Optional Imaging area, chemiluminescent: 16 cm X 13 cm Bit depth: 16 bit Resolution: 2688 X 2200 Imaging time: 0-60 minutes Visible imaging: Yes | | | | | |
| Phosphor Imaging Module | Sample types: | Optional Storage phosphor screen (| (imaging plate) | N/A | | |



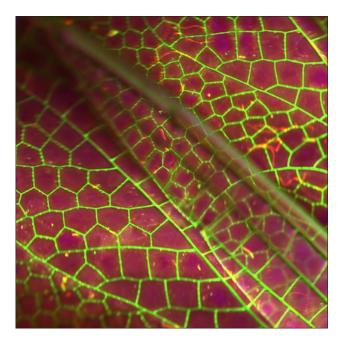
Dragonfly 488nm – 658nm – 784nm – 10micron



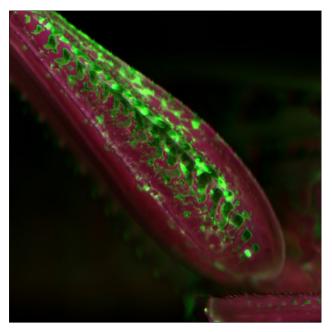
Corn 488nm – 658nm – 10micron



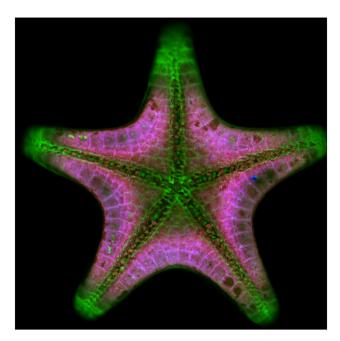
2D Gel ImageUntreated HeLa lysate was labeled with Cy3. Treated HeLa lysate was labeled with Cy5. Samples were simultaneously separated using IEF in the first dimension and SDS-PAGE in the second dimension.



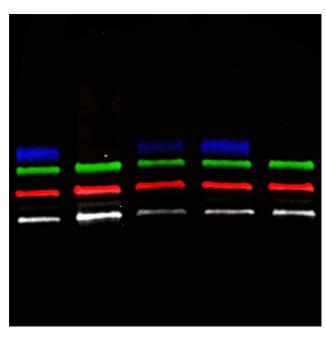
Dragonfly (Zoom) 488nm – 658nm – 784nm – 10micron



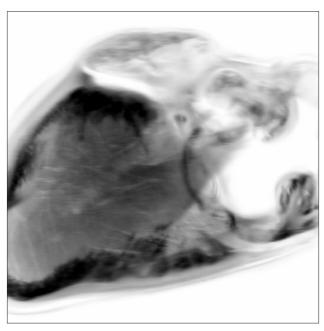
Grasshopper (Zoom) 488nm – 658nm – 784nm – 10micron



Sea Star 488nm – 520nm – 658nm – 784nm – 10micron



Multiplex FluorescenceUp to 4 different fluorescent probes can be used and imaged at once.



Mouse Heart (Black & White) 658nm – 10micron

| Part Number | Name | Description |
|---------------|---------------------------------------|--|
| IS1024 | Sapphire Biomolecular Imager – NIR | Laser excitation wavelengths at 685nm and 784nm |
| IS1025 | Sapphire Biomolecular Imager – RGB | Laser excitation wavelengths at 488nm, 520nm and 658nm |
| IS1026 | Sapphire Biomolecular Imager – RGBNIR | Laser excitation wavelengths at 488nm, 520 nm, 658nm and 784 nm |
| IS1027 | Sapphire Biomolecular Imager – PI | Sapphire Biomolecular Imager for phosphor imaging |
| Additional Mo | dules | |
| IS1003 | Chemiluminescence Module | Add chemiluminescence detection and white light imaging to Sapphire Biomolecular Imager |
| IS1004 | Phosphor Imaging Module | Add phosphor imaging to Sapphire Biomolecular Imager |
| IS1018 | Q-Module – 520 Laser Module | Add 520nm laser and detector to Sapphire Biomolecular Imager – NIR |
| IS2018 | Densitometry Module | Sapphire densitometry package for Azure Sapphire Biomolecular Imager with green channel (520nm laser). |

SAPPHIRE ERASER

Phosphor screen imaging plate eraser

Dedicated instrument for erasing storage phosphor screens (imaging plates). LED light source, easy to use drawer design and interface. Fits up to 25x25cm storage phosphor screens.



| Part Number | Name |
|-------------|-----------------------|
| IS1015 | Azure Sapphire Eraser |

AZURE IMAGING SYSTEMS

600, 500, 400 and 300

Performance without compromise

Azure Imaging Systems give you the flexibility you need for your research, while delivering solutions for quantitative Western Blot imaging.

Each Azure Imaging System provides:

- Flexibility—Sensitivity and performance for fluorescence, chemiluminescence, trans-UV & visible, and true-color imaging with 4.8 OD dynamic range. High resolution CCD cameras with fast lens options, adjustable lens and illumination settings, trays with adjustable distance to the camera, and auto-detection and pre-calibrated focus.
- Quantitative accuracy—Designed for generating publication quality images and easy quantitation.
 Our reagents, imaging system, and software work seamlessly together to help you follow best practices for Western Blot publication.
- Intelligent workflow—Our user interface allows total customization over imaging protocols, while ensuring repeatability from sample to sample. Our systems feature Auto-Focus, Auto-Illumination and Filter Control, and Auto-Image Capture. An integrated touchscreen allows ease of use and it can easily be controlled by an external PC, if required.
- Data integrity—Azure Biosystems meets the standards for publication in all major journals, and additionally offers software to enable 21 CFR Part 11 Compliance.



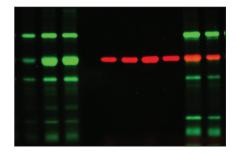




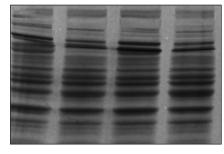
AZURE IMAGING SYSTEMS

IR fluorescence, visible fluorescence UV fluorescence, chemiluminescence visible imaging and blue light excitation

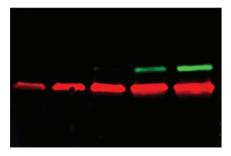
Gels | Blots | Plates | Tissues | Small Animal Models | Plants



In-gel Fluorescence with GFP and TAMRA



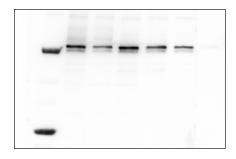
Coomassie Blue



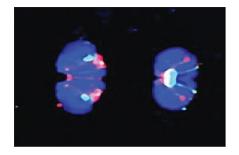
Western Blot with Cy3 and Cy5 Dyes



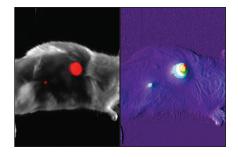
Escherichia coli



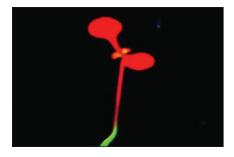
Chemiluminescent Western blot



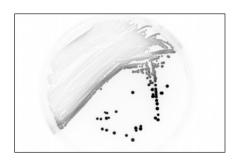
Mouse brain sections



Mouse with RFP-labeled subcutaneous tumor



Arabidopsis thaliana



Bioluminescent bacteria

AZURE IMAGING SYSTEM 280

The sensitivity of film at an economical price

With the Azure 280, performance and affordability go hand-in-hand, putting sensitive digital chemiluminescent detection within reach of most individual labs.

Get the same sensitivity as chemiluminescent detection on film, but without the hassles of a darkroom and the expense of a bulky film developer.

Image acquisition is as easy as placing your blot into the instrument and pressing a button—no more wasting time testing multiple film exposures to get the best image.

Ask for upgrade options to visible and IR Western Blot Imaging.

Key Features

- High performance digital chemiluminescent imaging eliminates the need for a darkroom—enjoy short imaging times, picogram sensitivity
- Application Flexibility—image DNA gels (EtBr, SYBR® Safe, and other "safe" dyes) and protein gels (Coomassie and silver stain) as well as chemiluminescent blots
- Easy analysis—included AzureSpot software automates many common tasks for quick and easy image capture and quantitation
- 4.8 OD Dynamic Range



AZURE IMAGING SYSTEM 200

Gel imaging workstation

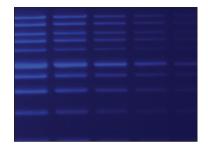
Easily image DNA and protein gels images without a darkroom with the Azure 200.

Use your choice of dyes or stains and the system automatically selects the light source and filters for you—UV for Ethidium bromide-stained DNA gels, blue light for SYBR® Safe or similar dyes, white light for Silver stain or Coomassie Blue.

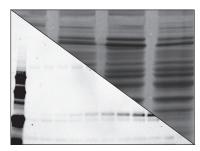
- "Safe" Dye Detection—A less toxic alternative to ethidium bromide, "Safe" dyes can be imaged with the EPI Blue LEDs standard in all the systems. Epi Blue is recommended as it delivers superior & uniform illumination with reduced background compared to transilluminated blue light.
- Protein Analysis—Protein gels stained with Coomassie blue or silver stain can easily be imaged using the white light tray.
- DNA Detection with Ethidium Bromide—With a dual-wavelength 302 nm and 365 nm UV transilluminator, images of ethidium bromide-stained DNA gels can be captured in a fraction of a second. A safety switch prevents accidental exposure to the light sources when the door is open. The UV transilluminator can be pulled out and the safety switch overridden for band excision.



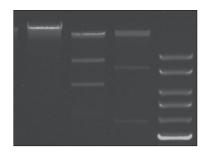




Blue Light Imaging SYBR® Safe, SYBR® Gold, SYBR® Green



White Light Imaging Coomassie Blue, Silver Stain



UV ImagingEthidium Bromide

AZURE IMAGING SYSTEMS Q MODULE

Upgrade the Azure 500 and Azure 300 to include a green fluorescence Q module to add a dedicated channel for total protein normalization in quantitative Western blots.

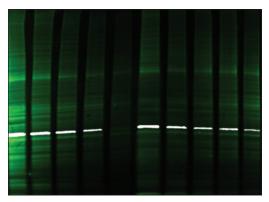
The Q module allows for efficient total protein normalization for quantitative Western blots.

Solve the issue of housekeeping proteins' lack of linearity and normalization accuracy at high protein loads by incorporating total protein stains into your quantitative Western blot workflow.



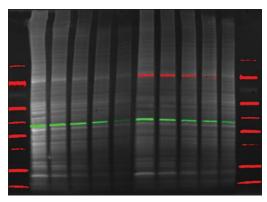


Azure 300 + Q Module = Chemi Imaging with TPS (Total Protein Stain)



Simultaneous detection of total protein with AzureRed and Chemiluminescent Western Blot. 2-fold serial dilutions of HeLa lysate were separated by SDS-PAGE and transferred to a PVDF membrane. After completion of the semi-dry transfer, the membrane was stained with AzureRed total protein stain. The blot was then blocked with Azure Chemiluminescent Blot Blocking Buffer prior to incubation with mouse anti-GAPDH. The blot was washed 3-times with Azure Blot Washing Buffer then incubated with Azure goat anti-mouse HRP secondary antibody. Chemiluminescent signal was detected with Radiance ECL substrate. After substrate incubation, the blot was imaged to produce an overlay of total protein staining and GAPDH protein. AzureRed is shown in green and GAPDH in gray.

NIR WB + Q Module = Multiplex Imaging with TPN



Simultaneous detection of total protein content with AzureRed and two-color NIR Western Blot using AzureSpectra secondary antibodies. 2-fold serial dilutions of HeLa (left) and IFNa-treated HeLa lysate (right) were separated by SDS-PAGE and transferred to a PVDF membrane. After transfer and before blocking, the membrane was stained with AzureRed total protein stain. Then, the membrane was incubated simultaneously with rabbit anti-phospho STAT-3 and mouse anti-GAPDH) primary antibodies. After washing, the blot was incubated simultaneously with AzureSpectra goat anti-rabbit IR700 and AzureSpectra goat anti-mouse IR800 secondary antibodies.

AZURE IMAGING SYSTEMS

| | Azure 600 | Azure 500Q | Azure 500 | Azure 400 | Azure 300Q | Azure 300 | Azure 280 | Azure 200 |
|-------------|-------------------|-------------------------|-----------|------------|-------------------------|-----------|-----------|-----------|
| Part number | AZI600-01 | | AZI500-01 | AZI400-01 | | AZI300-01 | AZI280-01 | AZI200-01 |
| | | | | Dual UV 30 | 02 and 365 | | | |
| GEL | | | | | Dye Light | | | |
| GEL | | | | Visible | e Light | | | |
| | | | | | White Table* | | | |
| F01 | Chemi ECL | | | | | | N/A | |
| ECL | True Color Marker | | | | | | N/A | |
| | Blue Cy2 | N/A | N/A | Blue Cy2 | N/A | N/A | N/A | N/A |
| RGB | Green Cy3 | "Q Module" Green Cy3 | N/A | Green Cy3 | "Q Module" Green Cy3 | N/A | N/A | N/A |
| | Red Cy5 | N/A | N/A | Red Cy5 | N/A | N/A | N/A | N/A |
| | N/A | Upgra | deable | N/A | Upgra | deable | N/A | N/A |
| NIR | | Laser 685 | | N/A | N/A | N/A | N/A | N/A |
| | | Laser 784 | | N/A | N/A | N/A | N/A | N/A |
| | | N/A | | | Upgradeable | | N/A | N/A |

| | IR 800 | IR 700 | Red Cy5 | Green Cy3 | Blue Cy2 | Safe Dye |
|--------------------------|----------------------------|----------------------------|--------------------------|--------------------------|-------------------------|---------------------|
| Excitation Source | Lasers 784 nm | Lasers 685 nm | LEDs 628±16 nm | LEDs 524±12 nm | LEDs 472±15 nm | LEDs 472±15 nm |
| Emission Filter | IR 680 735 BP 28 | IR 800 832 BP 37 | Far Red Cy5 684 BP 24 | Yellow Cy3 572 BP 28 | Green Cy2 513 BP 17 | Orange 595 BP 55 |
| Dyes | IR 680 AzureSpectra 700 | IR 800 AzureSpectra 800 | Cy5 AzureSpectra 650 | Cy3 AzureSpectra 550 | Cy2 AzureSpectra 490 | Safe Dye |
| Stains | | | | TotalStain Q AzureRed | GFP | TotalStain Q |
| Azure 600 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Azure 500Q | ✓ | ✓ | | ✓ | | ✓ |
| Azure 500 | ✓ | ✓ | | | | ✓ |
| Azure 400 | | | ✓ | ✓ | ✓ | ✓ |
| Azure 300Q | | | | ✓ | | ✓ |
| Azure 300 | | | | | | ✓ |

AZURESPOT PRO ANALYSIS SOFTWARE

Advanced analysis for 1D gels and blots

Interpret your data easily and accurately

AzureSpot Pro helps you interpret your data easily and accurately. Analyze your gels and blots in either manual or automatic modes.

Automatically detect bands, even on distorted gels, and apply your selected method of background correction.

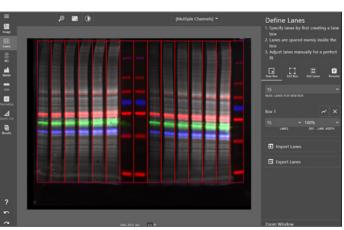
Visualize intensity plots by lane (sample) and channel (probe) to get detailed information about your proteins of interest.

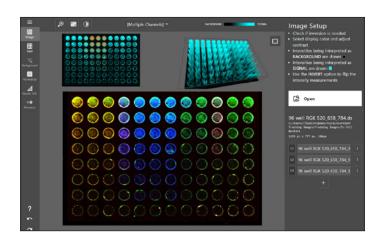
The integrated tutorial helps you get the most information out of your analyses. Generate a report of your experiment or export your data to other applications (e.g. Excel) for further analysis.

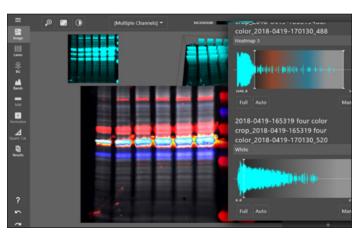












AZURESPOT PRO ANALYSIS SOFTWARE

AzureSpot Pro can

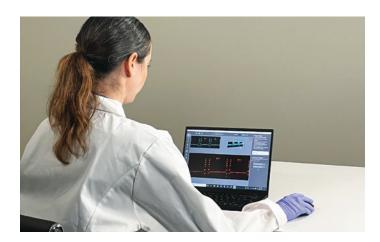
- Automatically detect bands
- Correct for background
- · Calculate molecular weights
- Quantify fluorescent signals
- Annotate your results
- Visualize multiplex analyses
- Count colonies
- Analyze grids, well-plates and arrays
- Export reports

Hardware and software requirements

- Operating systems: Windows 10 64-bit, Windows 8.1
 64-bit, macOS Big Sur, macOS Catalina
- Processor: 64-bit Processor (Intel or AMD)
- Memory: Minimum 2 GB, recommended 16 GB
- Free Hard Disk Space: Recommended 4 GB
- File Formats: .tif, .jpg, .png, .img

Product features

- Integrated tutorial
- Report generator
- Automatic saturated pixel detection
- Analyze multiple blots or plates per image
- Lane creation tools
- Molecular size calibration
- Quantity calibration tool
- Blot and array normalization tool
- Module for easy shape selection/deselection
- Wide range of data fields to display in measurements
- Annotation tools for comments and highlighting of image



| Part Number | Name | Description |
|-------------|-------------------|---|
| AC1078 | AzureSpot Pro | Analysis of 1D gels and Western blots. Band analysis. Array Analysis. Colony counting. 4 Software Installations. PC and Mac compatible. |
| AC1077 | AzureSpot Pro GxP | Analysis of 1D Gels and WBs. Supplies compliance with 21CFR Part11. Includes IQ OQ. Electronic License |



Download a 30-day trial of AzureSpot Pro

ACCESSORIES



Thermal Printer

Digital thermal grayscale USB printer.

| Part Number | Name | Description |
|-------------|-----------------|---|
| AC1011 | Thermal Printer | Includes USB cable, driver, and one roll of thermal paper |



Thermal Paper

One box (4 rolls) High Density Thermal Paper.

| Part Number | Name | Description |
|-------------|---------------|--------------------------------|
| AC1012 | Thermal Paper | Each roll measures 110mm x 21m |



UV Safety Glasses/Goggles

For use with UV light or Blue light.

| Part Number | Name | Description |
|-------------|------------------------------|---|
| AC1022 | UV Safety Glasses/Goggles | Recommended accessory for band excision |



Screens

| Part Number | Name | Description |
|-------------|---------------------------------|---|
| AC1024 | Gel Cutting Screen | UV transmitting plastic that protects the transilluminator glass during band excision from gels |
| AC1025 | Blue Light Conversion Screen | For trans illumination of blue light. Converts UV light to blue light |

ACCESSORIES



Trays

| Part Number | Name | Description |
|-------------|-----------------------------|--|
| AC1023 | Gel Carrying Tray | UV Transmitting Tray with raised edges designed for transporting your sample into the imager (size 9x7 inches) |
| AC1016 | Orange Tray | For setting under Coomassie blue, silver stained, and other colorimetric gels during imaging |
| AC1017 | Black Tray | Black tray designed for optimal blot performance |
| AZI1000 | Trans White Table | Trans White Table designed for imaging Coomassie blue, silver stain and other colorimetric gels |
| AZI1002 | Trans White Table Bundle | Includes Azure Imaging system Trans White Table and Gel Carrying Tray |



Computer/Tablet Accessories

| Part Number | Name | Description |
|-------------|--------------|--|
| AC1013 | USB Keyboard | USB wireless keyboard compatible with Azure Imaging Systems |
| AC1014 | USB Mouse | USB wireless mouse compatible with Azure Imaging Systems |
| AC1015 | Stylus | Pointer tip for touch screen compatible with Azure Imaging Systems |

Sapphire Imaging Accessories

| Part Number | Name | Description |
|-------------|---------------------------------|---|
| IS1010 | Sapphire Mat | Designed for flattening membranes against the glass surface |
| IS1011 | Phosphor Screen | Multipurpose screen for ionizing radiation (20 x 25 cm) |
| IS1012 | Cassette for Phosphor Screen | Cassette for the multipurpose screen (20 x 25 cm) |

2

REAL-TIME PCR SYSTEMS





AZURE CIELO™ REAL-TIME PCR SYSTEMS

Cielo 3 and Cielo 6

The Azure Biosystems Cielo™ 3 and 6 qPCR Systems are designed to offer smart protocols, high quality data, robust durability and an intuitive user experience.

Our novel fiber optic detection system allows for enhanced sensitivity and speed. 3 or 6 standard channels let you analyze a variety of commercially available dyes, already in your workflow. Onboard software operated by a 10.2" touchscreen minimizes footprint and saves you bench space.

Easily connect to your Cielo via Wi-Fi, ethernet, USB or LAN. Get notified after each completed run and even remotely access protocols and files.





Applications

- · Quantitative and qualitative gene expression analysis
- · miRNA analysis
- Genetic mapping
- Genetic fingerprinting
- NGS library quantification
- 3 or 6 channel multiplex ability
- Pathogen quantification

Key Features

- Tested durability up to 1000 repeat experiments. 1 year standard warranty
- Marlow Peltier heating block with 12 gradient temperature zones
- 6.0 °C/sec ramp rate
- 96-well format for semi-skirted or un-skirted plates
- Fiber optic detection for 16-wells simultaneously
- 3 or 6 optical channels for multiplexing
- Sensitivity up to 1 copy of amplified DNA, 10 logs of dynamic range
- Open source chemistry, including FAST chemistry for ~20 min run-times
- Easily export data via Wi-Fi, ethernet, USB or LAN. Get notified after each completion

| Dyes/Probes | Azure Cielo 3 | Azure Cielo 6 |
|---|---------------|---------------|
| SYBR™ Green, EvaGreen™, FAM™ | Yes | Yes |
| VIC®, HEX™, JOE™, CAL Fluor® 540, CAL Fluor® Orange 560 | Yes | Yes |
| TAMRA™ | | Yes |
| ROX™, TEX®615, CAL Fluor® Red 610 | | Yes |
| CY®5, Quasar®670, Liz® Mustang Purple® | Yes | Yes |
| CY® 5.5 | | Yes |

Other dyes/probes are possible depending on the system configuration.

AZURE CIELO™ DX REAL-TIME PCR SYSTEMS

In-vitro Diagnostic Use

The Azure Cielo Dx qPCR system for in-vitro diagnostic use brings you the accuracy and sensitivity you need for your research, with intuitive touch screen software. With 6-target detection, the flexibility you need is at your fingertips.

Our novel fiber optic detection system allows for enhanced sensitivity and speed. 3 or 6 standard channels let you analyze a variety of commercially available dyes, already in your workflow. Onboard software operated by a 10.3" touchscreen minimizes footprint and saves you bench space.

Easily connect to your Cielo via Wi-Fi, ethernet, USB or LAN. Get notified after each completed run and even remotely access protocols and files.





Applications

- · Quantitative and qualitative gene expression analysis
- miRNA analysis
- Genetic mapping
- Genetic fingerprinting
- NGS library quantification
- 3 or 6 channel multiplex ability
- Pathogen quantification

USA: For in vitro diagnostic (IVD) use. The Azure Cielo 3 Dx and Azure Cielo 6 Dx Real-time PCR systems are registered with the U.S. FDA as Class II 510(k) exempt devices.

EU: For IVD use. The Azure Cielo 3 Dx and Azure Cielo 6 Dx systems are CE marked under the In Vitro Diagnostic Medical Devices Directive (98/79/EC). The CE IVD—authorized Azure Cielo Dx Systems are for distribution and use in EU countries only (Austria, Belgium, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Malta, Netherlands, Poland, Portugal, Slovenia, Spain, and Sweden).

Key Features

- Tested durability up to 1000 repeat experiments. 1 year standard warranty
- Marlow Peltier heating block with 12 gradient temperature zones
- 6.0 °C/sec ramp rate
- 96-well format for semi-skirted or un-skirted plates
- Fiber optic detection for 16-wells simultaneously
- 3 or 6 optical channels for multiplexing
- Sensitivity up to 1 copy of amplified DNA, 10 logs of dynamic range
- Open source chemistry, including FAST chemistry for ~20 min run-times
- Easily export data via Wi-Fi, ethernet, USB or LAN. Get notified after each completion

| Dyes/Probes | Azure Cielo 3 Dx | Azure Cielo 6 Dx |
|---|------------------|------------------|
| SYBR™ Green, EvaGreen™, FAM™ | Yes | Yes |
| VIC®, HEX™, JOE™, CAL Fluor® 540, CAL Fluor® Orange 560 | Yes | Yes |
| TAMRA™ | | Yes |
| ROX™, TEX®615, CAL Fluor® Red 610 | | Yes |
| CY®5, Quasar®670, Liz® Mustang Purple® | Yes | Yes |
| CY® 5.5 | | Yes |

Other dyes/probes are possible depending on the system configuration.

AZURE CIELO MANAGER

PC-compatible software designed to let you set up, run and analyze your real-time PCR data from your personal computer

Key features include:

- Data analysis modes for qPCR with dye/SYBR, quantitative PCR with probe, allele discrimination with probe, comparative quantitation and melt curve
- Intuitive plate map design allows users to assign well ID as standards, unknowns, calibrators, negative controls, NTC, etc.
- Easily set up and monitor thermal profiles including temperature, time and plate scan for each step
- View real-time qPCR graphs during an active experiment to monitor real-time reactions
- Post-run summary and analysis with ability to view statistical data in the form of charts, curves and graphs
- View a complete and easily customizable report of the qPCR experiment that can be readily exported
- Easily copy/paste data or graphs into Paint, Microsoft Office or other supported applications as needed
- Export data to MS Office, PDF or in MIQE preferred RDML (1.0, 1.1, 1.2) formats





Quickly set up and confirm plate layout. Each well is color coded by sample type, biological replicate, and technical replicate. Well type and standard curve values are also easily visible.



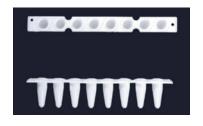
View each individual amplification trace by target or sample. Easily adjust threshold values by dragging the threshold line, or typing in the threshold value.



View 2D "heat map" of samples to quickly understand your data.

CONSUMABLES





Low Profile White Thin-Wall 8-Tube Strip

| Part Number | Name | Description |
|-------------|--|---|
| AIQ323 | White Thin-Wall 8-Tube Strip 0.1 ml | Low-profile, white, opaque, 8-tube strips (0.1 mL). Pack of 120 strips. |



Low Profile White 96-Well Plate

| Part Number | Name | Description |
|-------------|---|---|
| AIQ322 | Low Profile White 96- Well Plate 0.1ml | Low-profile, white, opaque, semi-skirted, 96-well plate (0.1 mL). Pack of 25. |



Ultra Clear Optical Sealing Sheet

| Part Number | Name | Description |
|-------------|--------------------------------------|--|
| AIQ325 | Ultra Clear Optical Sealing Sheet | Optical, non-pierceable seal that can be removed after the qPCR run. Pack of 25. |



Ultra Clear Flat 8-Cap Strip

| Part Number | Name | Description |
|-------------|---------------------------------|---|
| AIQ324 | Ultra Clear Flat 8-Cap Strip | Optical wide area 8-cap strip. Indented cap prevents "finger touch" signal interference. Pack of 120. |



MICROPLATE READER



AO ABSORBANCE MICROPLATE READER

Reading your 96 well plates just got easier

A microplate reader is an essential part of a productive lab, with its application flexibility, sensitivity, and high-throughput capabilities. The Ao's top-reading design is ideal for solution-based assays such as ELISAs, DNA and protein quantification, and enzyme kinetics.

- Stand-alone, top absorbance reader
- Large, easy-to-use 7-inch touch screen interface
- Pre-set and custom protocols
- Single and dual wavelength detecti on modes
- 8 position filter wheel: 5 standard filters (405, 450, 492, 595, and 630)
 plus 3 options from 340 750 nm
- Built-in shaker with speed selection
- Motorized door for easy sample loading
- 2-year warranty





| Specifications | Ao Absorbance Microplate Reader |
|---------------------------|--|
| Plate Type | 96-well Plates |
| Wavelength Range | 340–750 nm |
| Filters | 8 Position Filter Wheel includes 8 filters, 5 standard: 405, 450, 492, 595, and 630, and 3 selected from the filter catalogue. |
| Light Source | Quartz-halogen Lamp |
| Dynamic Range | 0–4.000 Abs |
| Resolution | 0.001 Abs |
| Linearity (@ 405 nm) | 0–2.000 Abs ≤±1%, 2–4.000Abs ≤±2% |
| Accuracy (@ 405 nm) | 0.005 ±1% (0–3 Abs), 0.005 ±2% (3–4 Abs) |
| Precision (@ 405 nm) | CV≤0.2% (0–3 Abs), CV≤1.0% (3–4 Abs) |
| Read Modes | End Point, Dual Mode, Kinetic |
| Read Speed | <6s Single Mode, 12s Dual Mode |
| Shaker | Shaker speeds: slow, medium, fast |
| Data Output | 3 USB Ports, Optional Printer |
| Dimensions (W x D x H) | 440 x 295 x 225 mm |
| Weight | 10 kg |

AO ABSORBANCE MICROPLATE READER

| Part Number | Name | Description |
|-------------|----------------------------|---|
| AC3000 | Azure Ao Microplate Reader | This 96-well plate, absorbance microplate reader is a stand-alone system, wavelength range 340-750nm, including 8 position filter wheel with 8 filters: 405, 450, 492, 595, and 630 standard, plus 3 from the filter catalogue, built-in shaker with speed selection, single and dual-read modes, and analysis software |

Accessories

| Part Number | Description |
|-------------|--|
| AC3200 | USB Thermal Printer |
| AC3201 | USB Thermal Printer Paper, single roll |

Filters

| Part Number | Description |
|-------------|------------------|
| AC3100 | Ao 340 nm Filter |
| AC3101 | Ao 380nm Filter |
| AC3102 | Ao 405 nm Filter |
| AC3103 | Ao 415 nm Filter |
| AC3104 | Ao 450 nm Filter |
| AC3115 | Ao 470 nm Filter |
| AC3116 | Ao 490 nm Filter |
| AC3105 | Ao 492 nm Filter |
| AC3117 | Ao 510 nm Filter |
| AC3118 | Ao 520 nm Filter |
| AC3119 | Ao 525 nm Filter |
| AC3120 | Ao 532 nm Filter |
| AC3106 | Ao 540 nm Filter |
| AC3121 | Ao 545 nm Filter |
| AC3122 | Ao 560 nm Filter |

| Part Number | Description |
|-------------|------------------|
| AC3123 | Ao 562 nm Filter |
| AC3107 | Ao 570 nm Filter |
| AC3108 | Ao 578 nm Filter |
| AC3109 | Ao 590 nm Filter |
| AC3110 | Ao 595 nm Filter |
| AC3124 | Ao 600 nm Filter |
| AC3125 | Ao 620 nm Filter |
| AC3111 | Ao 630 nm Filter |
| AC3126 | Ao 646 nm Filter |
| AC3112 | Ao 650 nm Filter |
| AC3127 | Ao 663 nm Filter |
| AC3113 | Ao 690 nm Filter |
| AC3128 | Ao 700 nm Filter |
| AC3114 | Ao 750 nm Filter |

(3)

REAGENTS AND CONSUMABLES





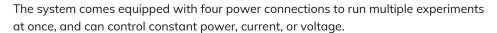




AZURE AQUA POWER SUPPLY

Versatile power supply for gel electrophoresis and blotting transfers

The Azure Aqua Power Supply is a universal power supply that is designed for powering electrophoresis and transfer modules. The power supply can create and save protocols for all your gel and blotting experiments, and includes a pause/resume function for flexibility.





| Part Number | Name |
|-------------|-------------------------|
| AC4203 | Azure Aqua Power Supply |

AZURE AQUA QUAD MINI-CELL

Vertical electrophoresis tank for running up to four gels simultaneously

The Azure Aqua Quad Mini-Cell is designed for running 1–4 precast or handcast gels (cassette size 10cm x 8cm) for electrophoresis. The locking side fasteners provide a tight seal that ensure rapid and easy electrophoresis. The unit comes equipped with 4 gel casting stands and casting frames, perfect for handcasting your own gels. Simply align the spacer and short glass plates, seal between the hinges, and allow your gel to polymerize. Insert the polymerized gel into the electrophoresis module for an efficient gel running experiment.



Includes

- 4 gel casting stands and casting frames
- 1 buffer dam
- 5 spacer plates (1mm)
- 10 short glass plates
- 5 15-well combs
- 5 10-well combs
- 5 sealing gaskets
- 5 gel shovels
- Tank and upper lid with power cables
- Primary and Secondary Electrode Cores

| Part Number | Name |
|-------------|---------------------------|
| AC4200 | Azure Aqua Quad Mini-Cell |

AZURE AQUA TRANSFER CELL

Wet transfer cell for Western blotting experiments

The Azure Aqua Transfer Cell is used for transferring two mini gels to membranes for Western blotting experiments (wet transfer). The transfer cassettes and electrode core are colored for directionality which makes transferring easy and straightforward. Perform a quick, 1 hour transfer or transfer overnight at a lower voltage.

Includes

- 2 transfer cassettes
- 6 sponges
- 2 Azure Aqua cooling units
- Tank and upper lid with power cables
- Transfer Electrode Cores



| Part Number | Name |
|-------------|--------------------------|
| AC4201 | Azure Aqua Transfer Cell |

INCUBATION TRAYS

For staining and washing gels and membranes

These specially designed incubation trays are ideal for staining and washing electrophoresis gels and membranes. Available in a range of sizes in both clear and opaque.

Features

- Lidded—to protect experiments from dust or debris
- Non-binding—surfaces treated with silicone to prevent antibody loss
- Convenient—multiple sizes available for different applications
- Opaque or clear—opaque trays are ideal for dealing with light sensitive fluorescent blots



| Part Number | Name | Description | Size |
|-------------|--|---|---------|
| AC2120 | Incubation Tray – 7x5cm (opaque black top and bottom) | For staining and washing light sensitive gels and membranes | 5 trays |
| AC2121 | Incubation Tray – 9x6cm (opaque black top and bottom) | For staining and washing light sensitive gels and membranes | 4 trays |
| AC2122 | Incubation Tray – 11x9cm (opaque black top and bottom) | For staining and washing light sensitive gels and membranes | 3 trays |
| AC2123 | Incubation Tray – 15.5x10.5cm (opaque black top and bottom) | For staining and washing light sensitive gels and membranes | 2 trays |
| AC2150 | Incubation Tray – 7x5cm (clear) | For staining and washing gels and membranes | 5 trays |
| AC2151 | Incubation Tray – 9x6cm (clear) | For staining and washing gels and membranes | 4 trays |
| AC2152 | Incubation Tray – 11x9cm (clear) | For staining and washing gels and membranes | 3 trays |
| AC2153 | Incubation Tray – 15.5x10.5cm (clear) | For staining and washing gels and membranes | 2 trays |

BACKGROUND QUENCHING SHEETS

Background quenching sheets for use with fluorescent or chemiluminescent samples

Use these quenching sheets under your blot when imaging chemiluminescent or fluorescent Westerns. The sheets reduce background due to contamination or auto-fluorescence, improving the quality of your image.







| Part Number | Name | Description | Size |
|-------------|-----------------------------|--|-----------|
| AC2144 | Quenching Sheets – 9x12.5cm | Background quenching sheets for use with fluorescent or chemiluminescent samples | 10 sheets |

BLOT DEVELOPMENT FOLDERS

Transparent plastic sheets to hold blots for imaging

A wrinkle-free alternative to plastic wrap, these transparent plastic folders hold your blot during handling and imaging and help maximize the signal longevity of Radiance and Radiance Plus Substrates.



| Part Number | Name | Description | Size |
|-------------|--------------------------|---|------------|
| AC2126 | Blot Development Folders | Transparent plastic sheets to hold blots for imaging – alternative to plastic wraps | 100 sheets |

PRE-CUT MEMBRANES

Pre-cut PVDF membranes for a variety of Western blotting applications save you time in the lab

Features

- Performance—quality-controlled for background-free Westerns
- Convenience—save time, and avoid concerns about membrane contamination
- Flexibility—available in PVDF and nitrocellulose, choose the right membrane for your application





PVDF pre-cut membranes for Western blotting applications

Low-fluorescence PVDF membranes reduce background noise for improved sensitivity. Available in three different pre-cut sizes.

- High binding capacity is great for low expressing proteins
- Typically used for fluorescence
- · High protein retention for stripping and reprobing

Nitrocelluose pre-cut membranes for Western blotting applications

Low-fluorescence Nitrocellulose membranes are available in both 0.45 μm and 0.22 μm pore sizes to accommodate larger and smaller proteins, respectively.

- Low molecular weight proteins
- Typically used for chemi
- Not ideal for stripping

| Part Number | Name | Description | Size |
|-------------|---|--------------------------------|-----------|
| AC2105 | Low Fluorescence Western Membrane (PVDF) 0.45 μm | Pre-cut 9x7 cm | 10 sheets |
| AC2108 | Low Fluorescence Western Membrane (PVDF) 0.45 µm | Pre-cut 10x15 cm | 10 sheets |
| AC2109 | Low Fluorescence Western Membrane (PVDF) $0.45~\mu m$ | Pre-cut 13x18 cm vertical gels | 10 sheets |
| AC2106 | Nitrocellulose Transfer Membrane 0.45 µm | Pre-cut 8x10 cm | 10 sheets |
| AC2107 | Nitrocellulose Transfer Membrane 0.22 µm | Pre-cut 8x10 cm | 10 sheets |
| | | | |

BLOTTING PAPER FOR WESTERN BLOTTING

Pre-cut blotting paper for Western blot transfer

Pre-cut blotting papers save time and reduce waste for the easiest Western blotting workflow. Forget about measuring and cutting blotting paper to the size of your minigels. Use these pre-cut papers to assemble your transfer "sandwiches".



- For 8x10cm gels—blotting papers are 9x13cm
- For 7x9cm gels—blotting papers are 8x10cm



| Part Number | Name | Description | Size |
|-------------|-------------------------------------|--|-----------|
| AC2110 | Blotting Paper for Western Blotting | Pre-cut blotting paper for Western blot transfer—7x9 cm vertical gels | 60 sheets |
| AC2111 | Blotting Paper for Western Blotting | Pre-cut blotting paper for Western blot transfer— 8x10 cm vertical gels | 60 sheets |

AZURE TRANSFER BUFFER

Enhanced protein transfer for improved sensitivity

Azure's proprietary transfer buffer provides improved detection of low-abundance and post-translationally modified proteins. High-efficiency protein transfer and increased protein retention on the membrane add up to more sensitive Western blots.

Features

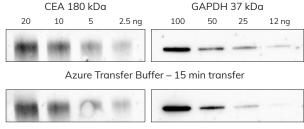
- High performance—increased protein retention on the membrane and fast transfer times result in more sensitive detection of low-abundance and post-translationally modified proteins
- Efficient—enhanced transfer efficiency for proteins of all sizes
- Fast—transfer proteins in less than 20 minutes vs. several hours required with traditional transfer buffers
- Convenient—use your existing wet transfer electrophoresis apparatus











Towbin Buffer – 60 min transfer

Complete transfer in less than 20 minutes! Transfer of CEA (high MW) and GAPDH (low MW) proteins was compared using Azure Transfer Buffer and Towbin transfer buffers. Following Western blot analysis, the data show equivalent protein transfer in 15 minutes with Azure Transfer Buffer vs. 60 minutes with Towbin buffer.



Shorter run times. Azure Transfer Buffer achieves complete protein transfer in less than 20 minutes.

| Part Number | Name | Description | Size |
|-------------|-----------------------|---|--------|
| AC2127 | Azure Transfer Buffer | 50x concentrated solution sufficient for 50–100 blots | 500 ml |

AZURE PONCEAU STAIN

Quick total protein stain for membranes

Azure Ponceau detects total protein on nitrocellulose and PVDF membranes, allowing you to check the quality of protein transfer before proceeding with Western blotting. Use Azure Ponceau Stain to quickly visualize whether protein transfer was even across the entire blot, and that no bubbles or other transfer artifacts are present. The staining is reversible and after destaining, membranes can immediately be used for Western blotting.

Figure 2 and a second s

Features

- Quick—protein staining is complete in 5 minutes or less
- · Reversible—easily destain membrane with water
- Compatible—after destaining, PVDF and nitrocellulose membranes are ready for Western blotting

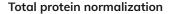
| Part Number | Name | Description | Size |
|-------------|---------------------|---|--------|
| AC2125 | Azure Ponceau Stain | Visible reversible total protein stain for proteins transferred to membrane—sufficient for staining 50 blots 9x7 cm | 500 ml |

AZURERED FLUORESCENT PROTEIN STAIN

Quantitative fluorescent total protein stain

Features

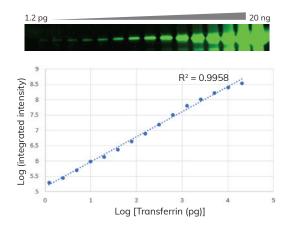
- Sensitive—detect less than a nanogram of protein per spot
- Convenient—simple 30 minute protocol for blots or 3 hour protocol for gels
- Flexible—stain gels or membranes
- Reversible—destain for downstream Western blotting or mass spectrometry
- No speckling—clean background and no speckling for better data
- Safe—biodegradable and contains no heavy metals for increased safety and simple disposal
- Compatible—image stained blots or gels with laser or CCD imaging systems.
 Multiplex stained membranes with fluorescent Western blots for simultaneous detection of total protein and proteins of interest.



Use AzureRed as a fluorescent total protein normalization stain. The 30 minute protocol produces superior linearity, sensitivity and reproducibility and is compatible with multiplex fluorescent Western blotting.

Stain 1D and 2D gels

AzureRed stains 1D and 2D gels in less than 3 hours, with high sensitivity, low background, and no speckling.



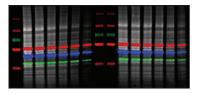
Quantitative staining with AzureRed. Gel containing a serial dilution of transferrin was stained with AzureRed and imaged with the 520nm channel of the Sapphire Biomolecular Imager. Less than 2pg of protein per band can be detected, and the signal is linear over more than 4 orders of magnitude.



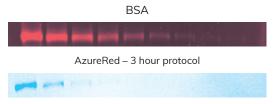








A membrane was stained with AzureRed and probed for three proteins. The resulting fluorescent Western blot was scanned on a Sapphire Biomolecular Imager to detect all three proteins and the total protein stain simultaneously.



Coomassie blue stain – overnight protocol

High sensitivity, fast protocol. AzureRed outperforms both Coomassie blue and SYPRO® Ruby in time and sensitivity. Gels were stained with AzureRed, SYPRO Ruby, or Coomassie blue stain, according to the manufacturers' protocols and imaged on a CCD imager.

| Part Number | Name | Description | Size |
|-------------|------------------------------------|---|------|
| AC2124 | AzureRed Fluorescent Protein Stain | Fluorescent total protein stain for 1D and 2D gels – sufficient for 20 minigels | 5ml |

TOTALSTAIN Q FLUORESCENT TOTAL PROTEIN STAIN KITS

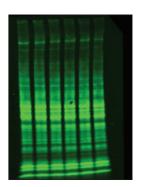
Quantitative and rapid fluorescent reagent for Total Protein Normalization of Western Blots

The quantitative immunodetection of low abundant targets sometimes requires to load big amounts of protein in the gel. Highly expressed housekeeping proteins used for normalization lack proportionality in these conditions. TotalStain Q is a fluorescent total protein stain with linearity up to 50 μg of lysate, making it ideal for normalization of low expressed proteins. Each PVDF and nitrocellulose kit is good for 15 membranes.

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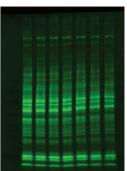
Features

- Linearity—Total protein signal remains linear over a range of 1–50 μg of lysate, making it ideal for the most common samples in the lab
- Convenience—Simple stain-and-wash 20 minute protocol post-transfer and pre-blocking. No destaining step required
- Versatility—Compatible with ECL and NIR fluorescent immunodetection on PVDF in all Azure Imaging Systems. It is also used for transfer efficiency verification





HeLa lysate 5μg replicates. (Left) TotalStain Q imaged in Cy3 channel (Green). (Right) pSTAT3 chemiluminescent detection (Grayscale).





| Held lysate 5µg replicates. (Left) TotalStain Q imaged in Cy3 channel |
|---|
| (Green). (Right) hnRNP K detection in 700nm channel (Red); GAPDH |
| detection in 800nm channel (Blue). |

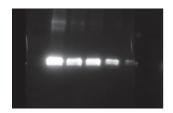
| Part Number | Name | Description | Size |
|-------------|--|--|-------|
| AC2225 | TotalStain Q – PVDF Fluorescent Total Protein Stain Kit | Fluorescent Total Protein Stain for PVDF membranes | 1 kit |
| AC2227 | TotalStain Q – NC Total Protein Stain Kit | Fluorescent Total Protein Stain for nitrocellulose membranes | 1 kit |

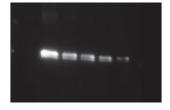
AZURE CHEMI BLOT BLOCKING BUFFER

Ready-to-use block that enhances chemiluminescent signal

Azure Chemi Blot Blocking Buffer was formulated specifically for chemiluminescent Western blots to enhance signal and lower background. The 1X formula comes ready-to-use with no mixing or dilutions required.







Milk









Azure Chemi Blot Blocking Buffer

Azure Chemi Blot Blocking Buffer

Name

Part Number

AC2148

| Description | Size |
|--|-------|
| Provided as a 1x Ready-to-Use Solution | 500mL |

AZURE PROTEIN-FREE BLOT BLOCKING BUFFER

Protein-free solution for fluorescent immunoblots

Azure Protein-Free Blot Blocking Buffer is a protein-free blocking solution optimized for fluorescent Western blots. It also serves as an excellent blocking reagent for chemiluminescent Western blotting.

It can reduce background when used with primary antibodies that have a high degree of cross-reactivity with protein blockers such as BSA, casein or milk protein.







| Part Number | Name | Description | Size |
|-------------|---|---------------------------|-------|
| AC2112 | Azure Protein-Free Blot Blocking Buffer | Provided as a 5x solution | 200mL |

AZURE FLUORESCENT BLOT BLOCKING BUFFER

Ready-to-use block that stabilizes fluorescent signal

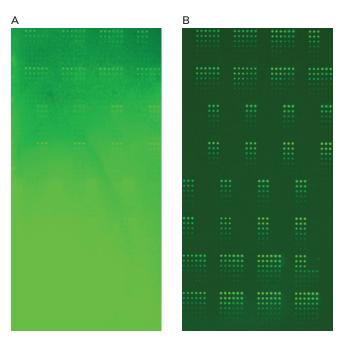
Azure Fluorescent Blot Blocking Buffer is optimized for use with Azure's fluorescent Western blotting systems. The 1x solution is ready-to-use and formulated to lower background noise and stabilize fluorescent signal.











Dramatic effect of blocking buffer on background and signal-to-noise ratio. Duplicate dot blots were processed and imaged identically except for the blocking step which was either 5% nonfat dry milk in TBST (A) or Azure Protein-Free Blot Blocking Buffer (B).

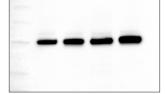
| Part Number | Name | Description | Size |
|-------------|--|--|-------|
| AC2190 | Azure Fluorescent Blot Blocking Buffer | Provided as a 1x Ready-to-Use Solution | 500mL |

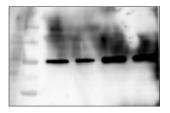
AZURE BLOT WASHING BUFFER

One wash for any Western blotting system

Azure Blot Washing Buffer can be used with any Western blotting system, including all chemiluminescent and visible fluorescent Western blotting kits. Provided as a 10x concentrate.









Good wash

Insufficient wash

| Part Number | Name | Description | Size |
|-------------|---------------------------|---|-------|
| AC2113 | Azure Blot Washing Buffer | Provided as a 10x concentrated solution | 500mL |

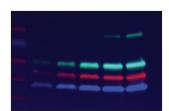
AZURE FLUORESCENT BLOT WASHING BUFFER

Washing buffer optimized for use with fluorescent secondary antibodies

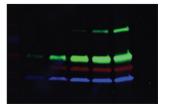
Optimized for use with both visible and near-infrared fluorescent Western blots, Azure's Fluorescent Blot Washing Buffer is specially formulated to reduce non-specific binding of fluorescent secondary antibodies to produce clean blots with high signal-to-noise ratios.











Azure Fluorescent Blot Washing Buffer

| Part Number | Name | Description | Size |
|-------------|---------------------------------------|----------------------------|-------|
| AC2145 | Azure Fluorescent Blot Washing Buffer | Provided as a 10x solution | 500mL |

RADIANCE™ SUBSTRATES

Specialized chemiluminescent HRP substrates for CCD imaging

Radiance chemiluminescent horseradish peroxidase (HRP) substrates are specially formulated for CCD imaging and to provide excellent performance with Azure's cSeries imaging systems. Radiance substrates produce strong, long-lasting signal that is linear with respect to protein load.









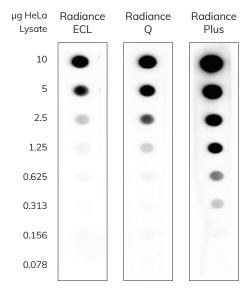
Which substrate is right for you?







| Radiance ECL | Radiance Q | Radiance Plus |
|--|--|---|
| Economical Linear signal for quantitative Westerns | Higher linear dynamic range for more reliable quantitation | Ultra-high sensitivity for low abundance proteins |
| 3 1 | Increased sensitivity | |
| | Extended signal longevity | |



A serial dilution of HeLa lysate was spotted on a membrane and identical dot blots were probed for GAPDH and detected using the Radiance Substrate indicated.

RADIANCE™ ECL SUBSTRATE

Chemiluminescent HRP substrate

Radiance ECL is an enhanced chemiluminescent substrate specially developed for routine Western blotting. The strong signal and low background produces cleaner blots, allowing for more meaningful quantitative comparisons.

Features

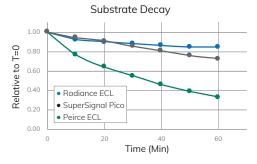
- Economical—well-suited for routine Western blotting
- Linear signal for more meaningful quantitative comparisons
- Long lasting signal



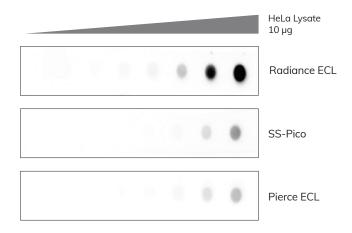


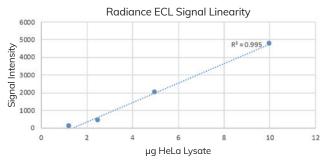






The blots pictured to the right were imaged at regular intervals up to sixty minutes, and the signal of the second spot is plotted above. Radiance ECL shows significantly less signal decay than other substrates.





A 1:1 serial dilution of HeLa lysate was spotted on a membrane and identical dot blots were probed for GAPDH and detected using the substrate indicated. The linearity of the Radiance ECL signal is shown on the bottom.

| Part Number | Name | Name | Size |
|-------------|--------------|---|-------|
| AC2204 | Radiance ECL | Enhanced Chemiluminescent HRP Substrate | 500mL |

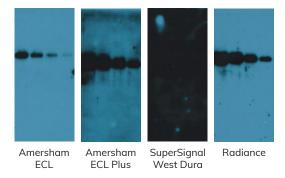
RADIANCE™ Q SUBSTRATE

Chemiluminescent substrate for quantitative chemiluminescent Westerns

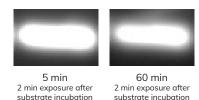
Radiance Q chemiluminescent substrate is specially formulated for CCD imaging. This novel horseradish peroxidase (HRP) substrate provides a strong, long-lasting signal, the broadest useful linear range, and high sensitivity for the most quantitative chemiluminescent Western assays.

Features

- Higher linear dynamic range for more reliable quantitation
- Increased sensitivity
- Extended signal longevity



Low background for broad useful linear dynamic range. Extremely low background with Radiance. Replicate Western blots were developed using Radiance or one of three other chemiluminescent substrates. After a simultaneous 20 minute exposure to the same piece of film, Radiance displays the best combination of sensitivity and signal with low background. All display parameters are identical across all images shown in this figure.



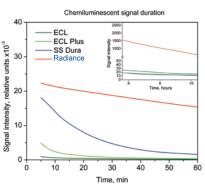
Long-lasting signal. Radiance allows blots to be imaged several hours after substrate incubation. Blots can be re-imaged to obtain the perfect exposure, without worrying about signal decay. A blot was imaged with 2 min exposures at 5 min and 60 min after substrate incubation.











Signal that endures. Radiance produces the most stable chemiluminescent signal. Blots detected using Radiance or one of three other chemiluminescent substrates were re-imaged at several times over a 10 hour period. The intensity of one band is plotted. 60 minutes after substrate incubation, Radiance retains 70% of its initial signal strength, while the competition decays to 5% or less. Enjoy more flexibility in imaging blots, knowing the signal will not decay substantially over several hours. Also, long exposures can be conducted if needed to detect very low abundance bands.

| Part Number | Name | Description | Size |
|-------------|------------|---|-------|
| AC2101 | Radiance Q | HRP Substrate for CCD Imaging – contains substrate for $1500\ \text{cm}^2$ membrane | 150ml |

RADIANCE™ PLUS SUBSTRATE

Chemiluminescent substrate for the most sensitive Western blotting experiments

Radiance Plus is the most sensitive HRP substrate available from Azure for chemiluminescent Western blotting. With attomole sensitivity and a long-lasting signal, Radiance Plus allows you to detect bands not visualized with other substrates. High signal-to-noise and a large dynamic range make it ideal for quantifying low-intensity bands.

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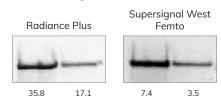




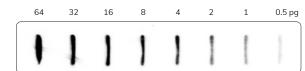
Features

- Detect low-abundance proteins
- Low background for high signal-to-noise ratio
- · Long-lasting signal

Signal:Noise ratio



Low background for better band quantification. Radiance Plus provides sensitive detection combined with extremely low background. Duplicate Western blots were conducted to analyze samples of plasma, diluted either 1:100 (left lanes) or 1:600 (right lanes) in PBS. The blots were probed with a goat antisera primary antibody, and an HRP-conjugated secondary antibody. After detection with either Radiance Plus or SuperSignal® West Femto (Thermo Scientific), the blots were imaged for 8.3 minutes. The signal-to-noise ratio is shown for each band.



The highest sensitivity. A slot blot containing serial dilutions of an HRP-conjugated antibody was incubated with Radiance Plus and detected with a 2-minute exposure time.

Time after substrate incubation

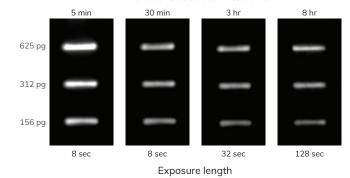


Image blots hours after substrate incubation. A slot blot containing a serial dilution of an HRP-conjugated antibody was incubated with Radiance Plus and imaged at the times indicated. After 8 hours, the bands are still easily detected with only a 2-minute exposure.

| Part Number | Name | Description | Size |
|-------------|---------------|--|-------|
| AC2103 | Radiance Plus | Femtogram-sensitivity HRP Substrate – contains substrate for 1500 cm² membrane | 150ml |

AZURE FLASH WESTERN CHEMILUMINESCENCE KIT

Run an entire Western blot from gel through imaging in just 2 hours

The Azure Flash Western Kit uses a proprietary set of reagents to achieve complete membrane blocking, rapid hybridization of antibodies, and enhancement of chemi signal in less than an hour of blotting time. Combine with Azure Transfer Buffer (AC2127) to cut wet transfer time down to 15- to 30-minutes for a total assay time of two hours from gel to imaging.

Features

- Fast protocol with few hands-on steps
- · Antibody stabilization for enhanced chemi signal
- Low background and increased signal-to-noise ratios
- Increased detection sensitivity and linear dynamic range

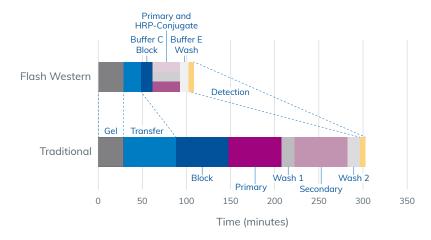












Time savings. Note: Flash Western graph includes use of Azure Transfer Buffer in light blue.

| Antibody | Sample Type | Azure Flash Western (1 hr) | Traditional Western (6 hrs) |
|----------|-------------------|-------------------------------|--|
| STAT-3 | Untreated HeLa | | |
| pSTAT-3 | IFNα HeLa | | ************************************** |
| HSP60 | Untreated HeLa | | |

Rapid protocol with low background and high sensitivity.

Replicate Western blots were performed using the Azure Flash Western Chemiluminescence Kit and a traditional Western blot protocol. Each blot shows a dilution series of the same sample. The Azure Flash Western Kit produced more sensitive detection than the traditional protocol with over 90% of antibodies (while STAT-3 and pSTAT-3 demonstrate the improved data quality possible with the Azure Flash Western Kit, the HSP60 antibody is an example of an antibody with similar performance).

| Part Number | Name | Size |
|-------------|---|-------|
| AC2220 | Azure Flash Western Chemiluminescence Kit, Rabbit | 1 Kit |
| AC2221 | Azure Flash Western Chemiluminescence Kit, Mouse | 1 Kit |

Each Flash Western Chemiluminescence Kit contains enough materials to perform ten chemiluminescent Western blots and includes PVDF membranes, Blocking Buffer, Flash HRP-conjugate, Flash Wash Buffer, and Radiance ECL Substrate.

HRP-CONJUGATED SECONDARY ANTIBODIES

For chemiluminescent immunodetection

Azure's high-quality HRP-conjugated secondary antibodies offer unparalleled sensitivity and performance for immunoblotting and ELISA applications. These secondary HRP conjugated antibodies are optimized to work with Azure's Radiance substrates.



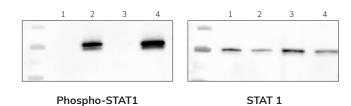


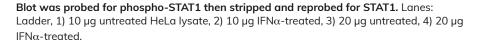
| Part Number | Name | | Size |
|-------------|---|---|--------|
| AC2114 | Goat-anti-rabbit HRP secondary antibody | HRP conjugated secondary antibody for chemiluminescent Westerns | 500 μΙ |
| AC2115 | Goat-anti-mouse HRP secondary antibody | HRP conjugated secondary antibody for chemiluminescent Westerns | 500 μΙ |
| AC2116 | Goat-anti-human HRP secondary antibody | HRP conjugated secondary antibody for chemiluminescent Westerns | 500 μΙ |
| AC2117 | Goat-anti-chicken HRP secondary antibody | HRP conjugated secondary antibody for chemiluminescent Westerns | 500 μΙ |
| AC2118 | Goat-anti-rat HRP secondary antibody | HRP conjugated secondary antibody for chemiluminescent Westerns | 500 μΙ |
| AC2119 | Goat-anti-guinea pig HRP secondary antibody | HRP conjugated secondary antibody for chemiluminescent Westerns | 500 μΙ |
| AC2149 | Donkey-anti-goat HRP secondary antibody | HRP conjugated secondary antibody for chemiluminescent Westerns | 500 μΙ |

HRP STRIPPING BUFFER

Stripping buffer for chemiluminescent Western blots

Uniformly removes antibodies from developed HRP Western blots so the blot can be reprobed with another set of antibodies.









| Part Number | Name | | Size |
|-------------|----------------------|--|-------|
| AC2154 | HRP Stripping Buffer | Provided as a 1x Ready-to-Use Solution | 500mL |

AZURE CHEMIWRITER ECL

Chemiluminescent pen for blot annotation

A chemiluminescent marker that enables you to write or draw on your transfer membranes, resulting in a chemiluminescent signal on your markings once substrate is added.

Tips

- The ChemiWriter ink contains a reagent that reacts with HRP substrates to produce chemiluminescence and also a blue dye to allow you to see markings as you write on the blot.
- There are two heads to the pen, a fine point tip and a thicker chisel point tip.
 We recommend using the fine point tip to annotate the blot and mark protein ladders for detection.
- The chisel point of the pen can be used to deposit an increased amount of reagent on the blot for more intense signal.
- For best results we recommend annotating your blot after transfer and before starting your Western blotting protocol.
- Once annotated, the blot may be stored dry or wet, refrigerated or at room temperature. The Azure ChemiWriter ECL reagent and blue ink markings on the blot are stable for at least 3 months.
- The ChemiWriter should be stored tightly closed at room temperature.

| Part Number | Name | Description | Size |
|-------------|-----------------------|--|-------|
| AC2146 | Azure ChemiWriter ECL | Chemiluminescent pen for blot annotation | 1 pen |

AZURESPECTRA LABELING KITS

Fast and simple antibody labeling

- Easy and fast—The fluorescent antibody labeling kit provides the materials necessary to fluorescently label the antibody of your choice in less than 1 hour
- Label primary antibodies—use antibodies that your lab has already validated and optimized. Labeled primary antibodies can then be used for direct Westerns.
- Label secondary antibodies—secondary antibodies can be labeled for traditional indirect Western blot applications
- Choose from 5 dyes—the non-overlapping emission spectra of the fluorophores available for labeling means you can easily perform multiplexing



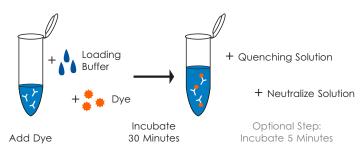




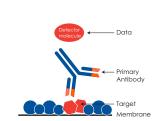


Perform multiplexing assays quick and easily. Fluorescent Western blot imaged with Azure c600. Secondary antibodies were labeled with the AzureSpectra labeling kit: anti-rabbit with AzureSpectra 700, anti-mouse with AzureSpectra 550, and anti-rat with AzureSpectra 800. Primary antibodies used were rat anti-tubulin, rabbit anti-beta actin, and mouse anti-GAPDH.

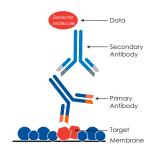
| | Excitation max. (nm) | Emission max. (nm) |
|-------------|----------------------|-----------------------|
| • Dye-490 | 491 | 515 |
| • Dye-550 | 551 | 565 |
| Dye-650 | 653 | 672 |
| Dye-IR700 | 692 | 709 |
| • Dye-IR800 | 783 | 800 |







Direct. Primary antibody is labeled.



Indirect. Secondary antibody is labeled.

| Part Number | Name | Description | Size |
|-------------|---------------------------------|---|-------|
| AC2185 | AzureSpectra Labeling Kit – 490 | | 1 kit |
| AC2186 | AzureSpectra Labeling Kit – 550 | Each kit includes sufficient reagents for labeling | 1 kit |
| AC2187 | AzureSpectra Labeling Kit – 650 | of 2 x 50 µg of antibody: Labeling Buffer, Dye solution, Quenching solution, Neutralization buffer, | 1 kit |
| AC2188 | AzureSpectra Labeling Kit – 700 | Two G-25 columns | 1 kit |
| AC2189 | AzureSpectra Labeling Kit – 800 | | 1 kit |

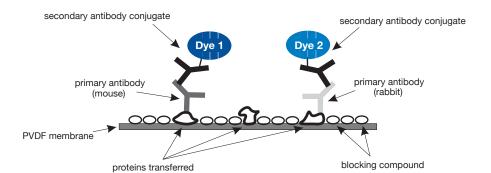
AZURESPECTRA FLUORESCENT WESTERN BLOTTING KITS

Full kits for two-color fluorescent Western blots

to the membrane

AzureSpectra Western Blotting Kits provide everything you need to perform two-color fluorescent Western blots. Each kit includes pre-cut membranes, wash buffer, blocking buffer, quenching sheets, and secondary antibodies to detect two proteins per experiment. Offered with Protein-Free Block or Fluorescent Block.













Two-color Western blotting. Using secondary antibodies labeled with different fluorophores, two proteins can be detected on a single blot by controlling excitation and detection channels (a). AzureSpectra conjugates incorporate the phycobiliproteins allophycocyanin (APC) and R-phycoerythrin (RPE), extremely bright fluorescent proteins from cyanobacteria and aukaryotic algea (b,c). AzureSpectra IR conjugates incorporate IR700 and IR800 fluorescent dyes with near-infrared excitation and emission wavelengths (d,e).

| Part Number | Name | Description | Size |
|-------------|---|---|-------|
| AC2140 | AzureSpectra rb700/ms800 Western Kit, with Protein Free Block | Kit contains materials for 10 Western Blots: PVDF membranes, wash buffer, protein free blocking buffer, secondary antibodies AzureSpectra rb700/ms800 | 1 kit |
| AC2141 | AzureSpectra ms700/rb800 Western Kit, with Protein Free Block | Kit contains materials for 10 Western Blots: PVDF membranes, wash buffer, protein free blocking buffer, secondary antibodies AzureSpectra ms700/rb800 | 1 kit |
| AC2104 | AzureSpectra rb700/ms800 Western Kit, with Protein Free Block | Kit contains materials for 10 Western Blots: PVDF membranes, wash buffer, protein free blocking buffer, secondary antibodies rb650/ms550 | 1 kit |
| AC2191 | AzureSpectra rb700/ms800 Western Kit, with Fluorescent Block | Kit contains materials for 10 Western Blots: PVDF membranes, wash buffer, fluorescent blocking buffer, secondary antibodies AzureSpectra rb700/ms800 | 1 kit |
| AC2192 | AzureSpectra ms700/rb800 Western Kit, with Fluorescent Block | Kit contains materials for 10 Western Blots: PVDF membranes, wash buffer, fluorescent blocking buffer, secondary antibodies AzureSpectra ms700/rb800 | 1 kit |
| AC2193 | AzureSpectra rb650/ms550 Western Kit, with Fluorescent Block | Kit contains materials for 10 Western Blots: PVDF membranes, wash buffer, fluorescent blocking buffer, secondary antibodies AzureSpectra rb650/ms550 | 1 kit |

AZURESPECTRA FLUORESCENT DEMO KITS

New to fluorescent Western blotting?

Azure's Fluorescent Demo Kits contain everything you need to perform a single color fluorescent Western using your sample and primary antibodies.

Each kit contains enough material for 1 Western blot

- 9x7cm Low Fluorescence PVDF membrane
- 10x Fluorescent Blot Washing Buffer, 30mL
- 1x Fluorescent Blot Blocking Buffer, 30mL
- Secondary Antibody, 4µL
- Background Quenching Sheets, 2 sheets











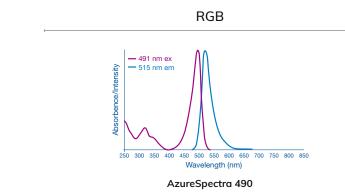


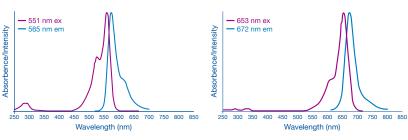
| Part Number | Name | Description | Size |
|-------------|--|---|-------|
| AC2172 | Azure Spectra Demo Kit – Goat Anti Mouse 700 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 700 secondary antibody | 1 kit |
| AC2173 | Azure Spectra Demo Kit – Goat Anti Rabbit 700 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 700 secondary antibody | 1 kit |
| AC2174 | Azure Spectra Demo Kit – Goat Anti Mouse 800 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 800 secondary antibody | 1 kit |
| AC2175 | Azure Spectra Demo Kit – Goat Anti Rabbit 800 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 800 secondary antibody | 1 kit |
| AC2176 | Azure Spectra Demo Kit – Goat Anti Mouse 650 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 650 secondary antibody | 1 kit |
| AC2177 | Azure Spectra Demo Kit – Goat Anti Rabbit 650 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 650 secondary antibody | 1 kit |
| AC2178 | Azure Spectra Demo Kit – Goat Anti Mouse 550 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 550 secondary antibody | 1 kit |
| AC2179 | Azure Spectra Demo Kit – Goat Anti Rabbit 550 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 550 secondary antibody | 1 kit |
| AC2218 | Azure Spectra Demo Kit – Goat Anti Mouse 490 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 490 secondary antibody | 1 kit |
| AC2219 | Azure Spectra Demo Kit – Goat Anti Rabbit 490 | Kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 490 secondary antibody | 1 kit |

AZURESPECTRA FLUORESCENT SECONDARY ANTIBODIES

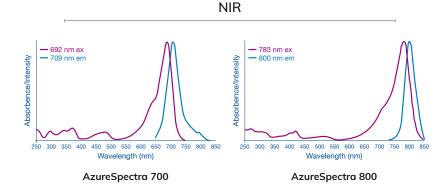
Visible and near-IR fluorescently labeled secondary antibodies

Azure offers secondary antibodies labeled with fluorophores that emit light in visible and near-infrared wavelengths. AzureSpectra 490, 550, 650, 700 and 800 secondary antibodies offer unparalleled sensitivity and performance for immunoblotting applications when used in conjunction with Azure's Western blotting systems.





AzureSpectra 550 AzureSpectra 650

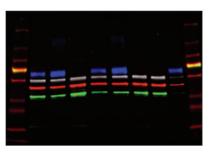








| | Excitation max. (nm) | Emission max. (nm) |
|-------------|----------------------|-----------------------|
| • Dye-490 | 491 | 515 |
| • Dye-550 | 551 | 565 |
| Dye-650 | 653 | 672 |
| • Dye-IR700 | 692 | 709 |
| • Dye-IR800 | 783 | 800 |



AzureSpectra 490
anti-Transferrin (directly labeled)
AzureSpectra 550
goat anti-rat, Tubulin
AzureSpectra 700
goat anti-rabbit, beta-Actin
AzureSpectra 800
goat anti-chicken, GAPDH

AZURESPECTRA FLUORESCENT SECONDARY ANTIBODIES

| Part Number | Name | | Size |
|-------------|------------------|---|-------|
| AC2206 | AzureSpectra 490 | Goat-anti-rabbit secondary antibody | 250mg |
| AC2207 | AzureSpectra 490 | Goat-anti-mouse secondary antibody | 250mg |
| AC2208 | AzureSpectra 490 | Goat-anti-human secondary antibody | 250mg |
| AC2209 | AzureSpectra 490 | Goat-anti-chicken secondary antibody | 250mg |
| AC2210 | AzureSpectra 490 | Goat-anti-rat secondary antibody | 250mg |
| AC2211 | AzureSpectra 490 | Goat-anti-guinea pig secondary antibody | 250mg |
| AC2217 | AzureSpectra 490 | Donkey-anti-goat secondary antibody | 250mg |
| AC2158 | AzureSpectra 550 | Goat-anti-rabbit secondary antibody | 250mg |
| AC2159 | AzureSpectra 550 | Goat-anti-mouse secondary antibody | 250mg |
| AC2160 | AzureSpectra 550 | Goat-anti-human secondary antibody | 250mg |
| AC2161 | AzureSpectra 550 | Goat-anti-chicken secondary antibody | 250mg |
| AC2162 | AzureSpectra 550 | Goat-anti-rat secondary antibody | 250mg |
| AC2163 | AzureSpectra 550 | Goat-anti-guinea pig secondary antibody | 250mg |
| AC2164 | AzureSpectra 550 | Donkey-anti-goat secondary antibody | 250mg |
| AC2165 | AzureSpectra 650 | Goat-anti-rabbit secondary antibody | 250mg |
| AC2166 | AzureSpectra 650 | Goat-anti-mouse secondary antibody | 250mg |
| AC2167 | AzureSpectra 650 | Goat-anti-human secondary antibody | 250mg |
| AC2168 | AzureSpectra 650 | Goat-anti-chicken secondary antibody | 250mg |
| AC2169 | AzureSpectra 650 | Goat-anti-rat secondary antibody | 250mg |
| AC2170 | AzureSpectra 650 | Goat-anti-guinea pig secondary antibody | 250mg |
| AC2171 | AzureSpectra 650 | Donkey-anti-goat secondary antibody | 250mg |
| AC2128 | AzureSpectra 700 | Goat-anti-rabbit secondary antibody | 250mg |
| AC2129 | AzureSpectra 700 | Goat-anti-mouse secondary antibody | 250mg |
| AC2130 | AzureSpectra 700 | Goat-anti-human secondary antibody | 250mg |
| AC2131 | AzureSpectra 700 | Goat-anti-chicken secondary antibody | 250mg |
| AC2132 | AzureSpectra 700 | Goat-anti-rat secondary antibody | 250mg |
| AC2133 | AzureSpectra 700 | Goat-anti-guinea pig secondary antibody | 250mg |
| AC2156 | AzureSpectra 700 | Donkey-anti-goat secondary antibody | 250mg |
| AC2134 | AzureSpectra 800 | Goat-anti-rabbit secondary antibody | 250mg |
| AC2135 | AzureSpectra 800 | Goat-anti-mouse secondary antibody | 250mg |
| AC2136 | AzureSpectra 800 | Goat-anti-human secondary antibody | 250mg |
| AC2137 | AzureSpectra 800 | Goat-anti-chicken secondary antibody | 250mg |
| AC2138 | AzureSpectra 800 | Goat-anti-rat secondary antibody | 250mg |
| AC2139 | AzureSpectra 800 | Goat-anti-guinea pig secondary antibody | 250mg |
| AC2157 | AzureSpectra 800 | Donkey-anti-goat secondary antibody | 250mg |
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| NOTES | | |
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NEW TO WESTERN BLOTTING? NEED TO TROUBLESHOOT YOUR WESTERN BLOT? WANT TO BRUSH UP ON WESTERN BLOTTING BEST PRACTICES?

Take a look at our FREE "2022 Western Blotting eBook" for the latest on fluorescent and chemiluminescent Western blots.



Complete Technical Manual

- Protocols
- Tips and tricks
- Troubleshooting
- MORE



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