

Azure Biosystems Western Blotting Workflow



① PLAN

Plan your experiment and choose your detection method

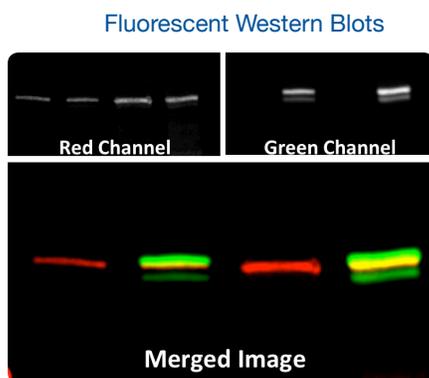
Chemiluminescent Western Blotting

The most common method for Western blot detection is chemiluminescence. Detection by chemiluminescence is relatively sensitive and works well for detecting individual or low abundance proteins.



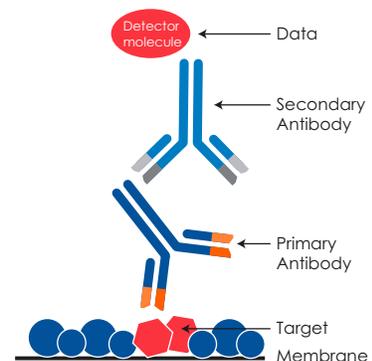
Fluorescent Western Blotting

Fluorescence Western blotting is beneficial when your experiment requires quantitation, particularly between different proteins in the same sample. Fluorescent methods are especially useful for detection of post-translationally modified versions of proteins, since the difference in molecular weight is often not enough for clear resolution on an average gel.



HOW IT WORKS

In chemiluminescent Western blots, a primary antibody is used to detect your protein of interest, followed by a species-specific secondary antibody to detect the primary antibody. The secondary antibody is conjugated to horseradish peroxidase (HRP), which catalyzes the oxidation of luminol to produce a product that emits light (luminescence). The light given off can be captured by film and developed in a darkroom, or it can be detected by a CCD camera using a digital imager.



HOW IT WORKS

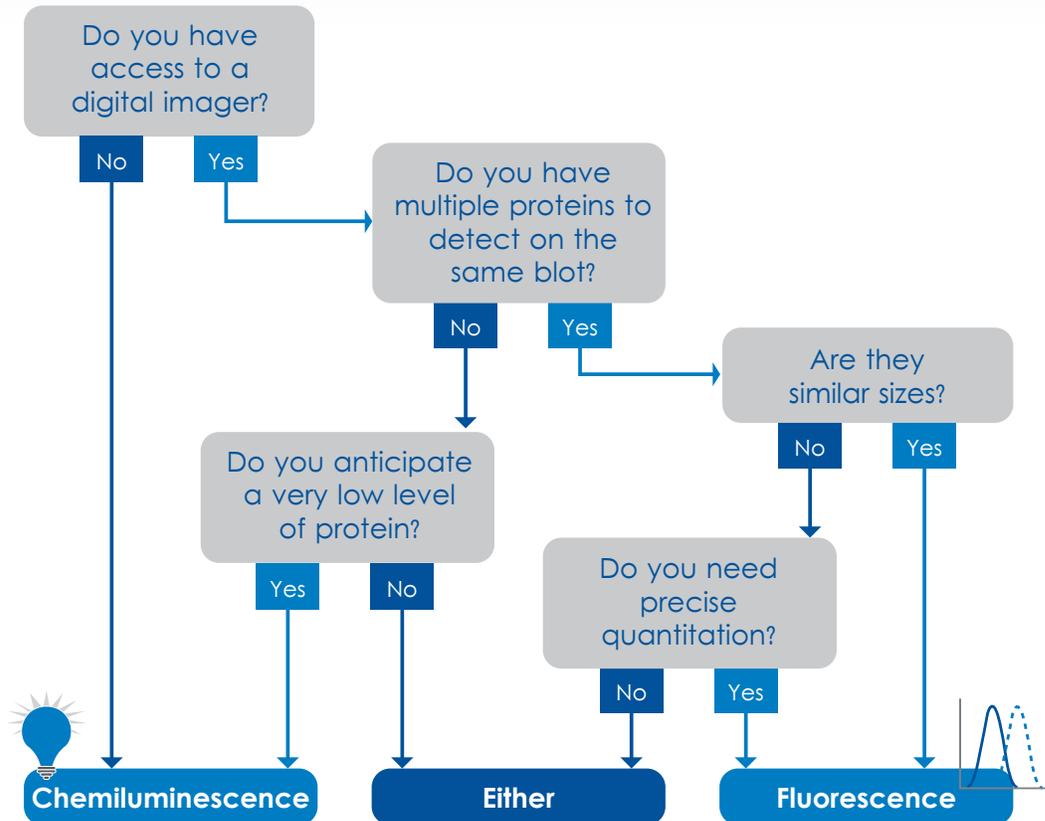
In fluorescent Western blots, the secondary antibody is conjugated to a dye molecule that can undergo fluorescence – meaning, it will give off light of a specific wavelength when excited with light of a shorter wavelength. Fluorophores are available in the visible or infrared (IR) spectrum.

Because different fluorophores can give off light in different ranges, fluorescent Western blotting can be used to multiplex – meaning, different target proteins can be visualized on the same blot at the same time.

With fluorescence, you have the option of using secondary antibodies conjugated to fluorophores, or you can label your primary antibodies with fluorophores of your choice to perform direct Westerns.

Plan your experiment and choose your detection method

Chemiluminescent or Fluorescent Western Blotting?



COMMON APPLICATIONS

Chemiluminescence

- Checking protein purification
- Presence or absence of one protein in a lysate
- Detecting low abundance proteins

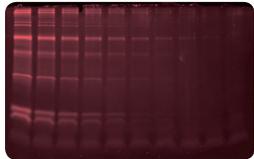
Fluorescence

- Analyzing multiple proteins
- Posttranslational modifications
- Quantitative comparisons

② SEPARATE

Resolve your proteins by electrophoresis and transfer to a membrane

RUN GEL



Is Western blotting required?

Some applications don't require western blotting and can be done by directly staining proteins in the gel after separation.

Applications

Checking for a single band after protein purification.

AzureRed Fluorescent Protein Stain (10147-342)

qualitatively stains gels for fluorescent imaging systems.

SELECT MEMBRANE



Choosing your membrane

The membrane provides a material that binds proteins as they move out of the gel matrix. The two common materials are nitrocellulose and PVDF.

Nitrocellulose

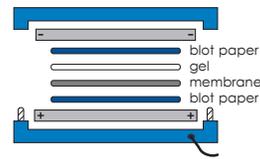
(10147-302, 10147-324)

- For low molecular weight proteins
- Typically used for chemi-applications
- Not ideal for stripping

PVDF (10147-300, 10147-326, 10147-328)

- High binding capacity is great for low-expression proteins
- Typically used for fluorescence (less background autofluorescence)
- High protein retention for stripping and reprobing

TRANSFER PROTEINS



Setting up a good transfer

Proper transfer set-up involves a "sandwich" where gel and membrane are laid in direct contact between blotting paper, flanked by electrode plates. The transfer buffer allows current to flow between electrodes to carry proteins from gel to membrane.

Blotting paper (filter paper) provides consistent pressure so no gaps appear between membrane and gel while remaining absorbent enough for transfer buffer to penetrate the layers.

Azure Pre-cut Blotting Paper (10147-332, 10147-334)

adds efficiency to this sandwich set-up.

Azure Transfer Buffer

(10147-348) is a proprietary formula designed for quick, high quality wet transfer and sensitive western blotting.

PREPARE FOR BLOT



Before blotting

Verifying that total protein was sufficiently transferred from gel to the membrane is important when optimizing a transfer setup, condition, or experiment.

Ponceau staining can be used to visualize all protein on the membrane. After, the membrane can be destined for immediate western blotting.

Azure Ponceau Stain

(10147-344) can ensure efficient transfer of proteins onto nitrocellulose or PVDF membranes.

Azure Opaque Incubation Trays

(10147-316 – 10147-322)

offer protection for light-sensitive membrane incubation. The surface is smoothed to prevent scratches and damage to membranes.

Azure Clear Incubation Trays

(75794-808, 75794-810, 75794-856, 75794-858)

allow protection of your blots, with a smoothed surface to prevent membrane damage and transparency for easy monitoring.

Block membrane and probe for proteins of interest with optimized antibodies

BLOCK & WASH



Blocking the membrane

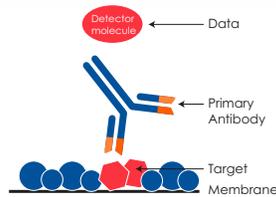
Blocking is important to prevent nonspecific background signals from interfering with your data.

Protein Free Blocking Buffer (10147-336) works best for purified proteins & antibodies with high cross reactivity with protein based blockers.

Fluorescent Blocking Buffer (75794-864) works best for cell lysates and low quality primary antibodies that require protein blockers.

Chemi Blot Blocking Buffer (75818-198) works best for chemiluminescent Western blots.

PRIMARY



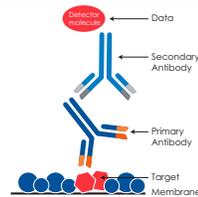
Probe with antibody

Make sure concentrations for new antibodies are optimized.

Have a validated primary antibody? Try a direct Western by labeling your primary antibody with fluorescent dye.

AzureSpectra Labeling Kit (75794-836 – 75794-844) allows quick and easy labeling of primary antibodies – see more on page 7.

WASH & SECONDARY



Washing after incubations

It is essential to wash excess antibody off the membrane after each incubation to prevent background signal. For fluorescent blots, make sure to rinse off excess wash buffer containing detergent, since it can fluoresce.

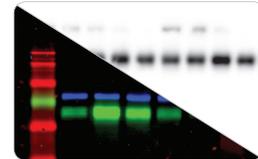
Blot Washing Buffer (10147-338) works well for chemiluminescent HRP substrates and visible fluorescent blots.

Fluorescent Blot Washing Buffer (10147-340) works best with NIR fluorescent blots.

Azure HRP secondary antibodies (10147-304 – 10147-314, 75794-866) offer a range of species specificities.

Fluorescent secondary antibodies (see page 10) come in visible and near IR fluorophores.

DETECT



Chemiluminescence detection

Choose your HRP substrate:

Radiance (10147-296) produces a strong, long-lasting signal with extremely low background.

Radiance Plus (10147-298) is the most sensitive HRP substrate and allows you to detect bands not visualized with other substrates.

ChemiWriter ECL (10304-282) adsorbs to nitrocellulose and PVDF membranes, and reacts with HRP substrates to produce chemiluminescence.

Blot Development Folders (10147-346) protect your blot during imaging and keep it wet for longer lasting signal.

Fluorescence detection

Background Quenching Sheets (10147-330, 75794-862) reduce background autofluorescence when imaging your fluorescent (or chemi) blot.

Need help getting started with fluorescent Western blotting? Check out the demo kit, page 8.

AzureSpectra Demo Kit
(75804-628, 75804-630, 75804-632, 75804-656, 75804-658, 75804-622, 75804-624, 75804-626)

NEED TO REPROBE?

HRP Stripping buffer (75794-858) efficiently removes antibodies from your blot.

④ VISUALIZE

Detect your proteins of interest by chemiluminescence or fluorescence

Azure Biosystems cSeries

The Azure Biosystems cSeries offers 4 unique Western blot imaging systems. Select which one fits your applications now, and learn more about upgrading later when your needs change.



Chemiluminescence			
Fluorescence			
c600	c500	c400	c300
<p>Ultimate Western System</p> <hr/> <p>IR Fluorescence Visible Fluorescence Chemiluminescence UV Fluorescence Visible Imaging Blue Excited DNA Dyes</p> <hr/>	<p>Infrared Imaging System</p> <hr/> <p>IR Fluorescence Chemiluminescence UV Fluorescence Visible Imaging Blue Excited DNA Dyes</p> <hr/> <p>Upgradeable to c600</p>	<p>Visible Fluorescent Western System</p> <hr/> <p>Visible Fluorescence Chemiluminescence UV Fluorescence Visible Imaging Blue Excited DNA Dyes</p> <hr/> <p>Upgradeable to c600</p>	<p>Darkroom Eliminator</p> <hr/> <p>Chemiluminescence UV Fluorescence Visible Imaging Blue Excited DNA Dyes</p> <hr/> <p>Upgradeable to c600, c500, and c400</p>
(10147-214)	(10147-216)	(10147-218)	(10147-220)

Analyze your data with easy-to-use software to get the answers you need

AzureSpot Analysis Software

Providing tools for the analysis of gels and blots, AzureSpot software makes complex analysis a simple process. Designed to be either fully automated or manual, AzureSpot provides flexibility and accuracy for data analysis.

Workflows to suit your analysis requirements

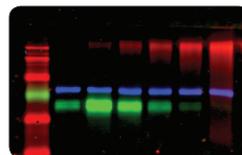
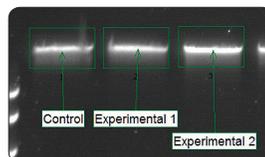
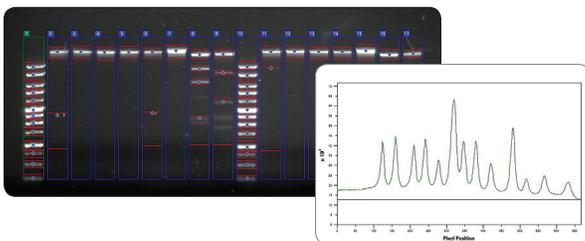
Fully automated or semi automated

1. Lay lane grid over your sample
2. Set threshold values, detect bands
3. Correct for background, choose from a wide variety of options
4. View results and make modification or edits to band boundaries

5. Use calibrated molecular weight markers to determine weight or use calibrated standards to determine relative concentrations

Freehand draw for fast analysis

1. Draw regions of interest
2. Detect background
3. Annotate image



Tools for multichannel analysis

Easily switch views on multicolor images to ensure the best analysis from channel to channel.

Tools to streamline analysis

Automatic PDF report generator

Save your findings in a detailed report.

Integrated tutorial

Software includes an integrated tutorial to guide you through analyzing your image.

AzureSpot includes the tools for:

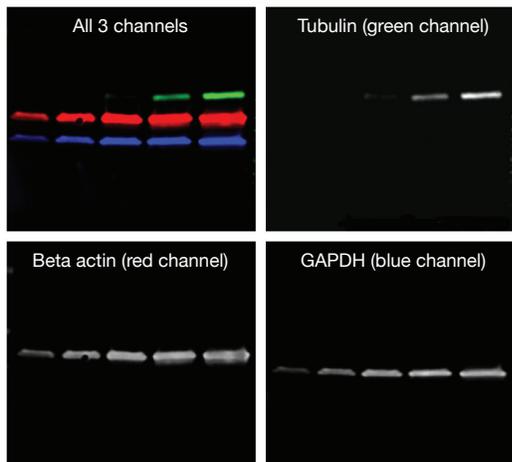
- Automatic Lane creation
- Band detection
- Background subtraction
- Molecular size/pI calibration
- Quantity calibration
- Annotation for comments and highlighting the image

LABELING KITS

AzureSpectra Labeling Kits

Label your primary or secondary antibody with a fluorescent dye

Perform multiplexing assays quickly 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.

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.

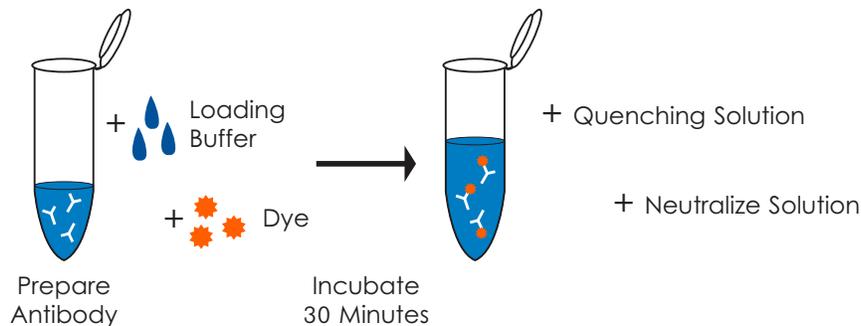
Label secondary antibodies

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.

Simple labeling protocol



Includes:

- Labeling Buffer
- Dye solution
- Quenching solution
- Neutralization buffer
- Two G-25 columns

Each kit includes sufficient reagents for labeling of 2 x 50 µg of antibody.

Products

75794-836	AzureSpectra Labeling Kit – 490
75794-838	AzureSpectra Labeling Kit – 550
75794-840	AzureSpectra Labeling Kit – 650
75794-842	AzureSpectra Labeling Kit – 700
75794-844	AzureSpectra Labeling Kit – 800

	Excitation max. (nm)	Emission max. (nm)
○ Dye-490	491	515
● Dye-550	551	565
● Dye-650	653	672
● Dye-IR700	690	709
● Dye-IR800	783	800

DEMO KITS

AzureSpectra Demo Kit

New to fluorescent Western blotting?

Let us help you get started.

Azure's Fluorescent Western blotting Demo Kit contains everything you need to perform single color fluorescent Westerns using your samples and primary antibodies.

What you need:

- Your protein sample, resolved by SDS PAGE
- Primary antibody against protein of interest



Each kit includes:

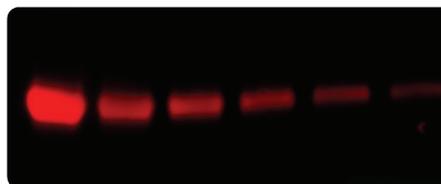
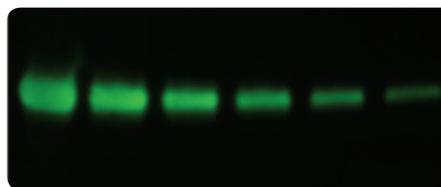
- 1 PVDF Membrane
- Fluorescent Blot Wash Buffer
- Fluorescent Blot Blocking Buffer
- Secondary Antibody
- 2 Background Quenching Sheets

Products

75804-628	Demo Kit AzureSpectra Goat-anti-mouse 700
75804-630	Demo Kit AzureSpectra Goat-anti-rabbit 700
75804-632	Demo Kit AzureSpectra Goat-anti-mouse 800
75804-656	Demo Kit AzureSpectra Goat-anti-rabbit 800
75804-658	Demo Kit AzureSpectra Goat-anti-mouse 650
75804-622	Demo Kit AzureSpectra Goat-anti-rabbit 650
75804-624	Demo Kit AzureSpectra Goat-anti-mouse 550
75804-626	Demo Kit AzureSpectra Goat-anti-rabbit 550

HOW TO USE

1. Run a gel of your sample and transfer to the provided PVDF membrane
2. Block using Fluorescent Blot Blocking Buffer
3. Probe using your chosen primary antibody
4. Wash with Fluorescent Blot Wash Buffer
5. Incubate with the provided secondary antibody
6. Wash again with Fluorescent Blot Wash Buffer
7. Rinse with PBS
8. Take an image of your fluorescent blot using the provided background quenching sheets



Blots probed with AzureSpectra secondary antibodies and imaged using NIR with an Azure c600. Top: probed with AzureSpectra 800 secondary (green). Bottom: probed with AzureSpectra 700 (red).

PRODUCTS

Ordering information

Part no. Description

Protein Gel Electrophoresis

10147-342 AzureRed Fluorescent Protein Stain—fluorescent total protein stain for 1D and 2D gels, sufficient for 20 minigels, 5 ml

Transfer

10147-300 Low Fluorescence Western Membrane (PVDF) –0.45 µm—pre-cut PVDF membrane, 9x7cm vertical gels, 10 sheets

10147-302 Nitrocellulose Transfer Membrane–0.45 µm—pre-cut membrane, 8x10 cm mini vertical gels, ideal for larger proteins, 10 sheets

10147-324 Nitrocellulose Transfer Membrane–0.22 µm—pre-cut membrane, 8x10 cm mini vertical gels, ideal for smaller proteins, 10 sheets

10147-326 Low Fluorescence Western Membrane (PVDF)–0.45 µm—pre-cut PVDF membrane, 10x15 cm vertical gels, 10 sheets

10147-328 Low Fluorescence Western Membrane (PVDF)–0.45 µm—pre-cut PVDF membrane, 13x18 cm vertical gels, 10 sheets

10147-332 Blotting Paper for Western Blotting—pre-cut blotting paper for Western blot transfer, 7x9 cm vertical gels, 60 sheets

10147-348 Azure Transfer Buffer—50x concentrated solution sufficient for 50-100 blots

10147-344 Azure Ponceau Stain—visible reversible total protein stain for proteins transferred to membrane, sufficient for staining 50 blots 9x7cm, 500 ml

Blocking

10147-336 Azure Protein Free Blot Blocking Buffer—protein-free blocking solution (5x concentrate) for immunoblots - 200 ml

75794-864 Azure Fluorescent Blot Blocking Buffer—blocking solution (1X) for fluorescent immunoblots, 500 ml

75818-198 Azure Chemi Blot Blocking Buffer—blocking solution (1X) for chemiluminescent immunoblots, 500 ml

Washing

10147-338 Azure Blot Washing Buffer—immunoblot washing solution 10x concentrate, 500ml

10147-340 Azure Fluorescent Blot Washing Buffer—immunoblot washing solution 10x concentrate, for use with fluorescent secondaries, 500 ml

Blot Accessories

10147-346 Blot Development Folder—transparent plastic sheets to hold blots for imaging (alternative to plastic wrap), 100 pcs

10147-330 Quenching Sheets, small—10 background quenching sheets, for use with fluorescent or chemiluminescent samples (9x12.5 cm)

75794-862 Quenching Sheets, large—10 background quenching sheets, for use with fluorescent or chemiluminescent samples (16x22 cm)

Part no. Description

Detection Substrates

10147-296 Radiance—HRP Substrate for CCD 150 ml kit, contains substrate for 1500cm² membrane

10147-298 Radiance Plus—femtogram HRP Substrate 150 ml kit, contains substrate for 1500cm² membrane

10304-282 Azure ChemiWriter ECL—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

Kits

10147-374 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

10147-376 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

10147-378 AzureSpectra rb650/ms550 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

75818-200 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

75817-510 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

75818-196 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

Stripping Buffer

75794-858 HRP Stripping Buffer—uniformly removes antibodies from developed HRP Western blots so the blot can be reprobbed with another set of antibodies

Incubation Trays

10147-316 7x5 cm, opaque black top and bottom—for staining and washing light sensitive gels and membranes, includes 5 trays

10147-318 9x6 cm, opaque black top and bottom—for staining and washing light sensitive gels and membranes, includes 4 trays

10147-320 11x9 cm, opaque black top and bottom—for staining and washing light sensitive gels and membranes, includes 3 trays

PRODUCTS

Ordering information

Part no. Description

Incubation Trays, *continued*

- 10147-322** 15.5x10.5 cm, **opaque black top and bottom**—for staining and washing light sensitive gels and membranes, includes 2 trays
- 75794-808** 7x5 cm, **clear**—for staining and washing gels and membranes, includes 5 trays
- 75794-810** 9x6 cm, **clear**—for staining and washing gels and membranes, includes 4 trays
- 75794-856** 11x9 cm, **clear**—for staining and washing gels and membranes, includes 3 trays
- 75794-858** 15.5x10.5 cm, **clear**—for staining and washing gels and membranes, includes 2 trays

AzureSpectra 800 secondary antibodies

- 10147-362** **Goat-anti-rabbit**—AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-364** **Goat-anti-mouse**—AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-366** **Goat-anti-human**—AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-368** **Goat-anti-chicken**—AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-370** **Goat-anti-rat**—AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-372** **Goat-anti-guinea pig**—AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-872** **Donkey-anti-goat**—AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns, 250 µl

AzureSpectra 700 secondary antibodies

- 10147-350** **Goat-anti-rabbit**—AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-352** **Goat-anti-mouse**—AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-354** **Goat-anti-human**—AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-356** **Goat-anti-chicken**—AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-358** **Goat-anti-rat**—AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 10147-360** **Goat-anti-guinea pig**—AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-870** **Donkey-anti-goat**—AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns, 250 µl

AzureSpectra 650 secondary antibodies

- 75794-822** **Goat-anti-rabbit**—AzureSpectra 650 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-824** **Goat-anti-mouse**—AzureSpectra 650 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-826** **Goat-anti-human**—AzureSpectra 650 conjugated secondary antibody for fluorescent Westerns, 250 µl

Part no. Description

AzureSpectra 650 secondary antibodies, *continued*

- 75794-828** **Goat-anti-chicken**—AzureSpectra 650 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-830** **Goat-anti-rat**—AzureSpectra 650 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-832** **Goat-anti-guinea pig**—AzureSpectra 650 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-834** **Donkey-anti-goat**—AzureSpectra 650 conjugated secondary antibody for fluorescent Westerns, 250 µl

AzureSpectra 550 secondary antibodies

- 75794-874** **Goat-anti-rabbit**—AzureSpectra 550 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-876** **Goat-anti-mouse**—AzureSpectra 550 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-878** **Goat-anti-human**—AzureSpectra 550 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-880** **Goat-anti-chicken**—AzureSpectra 550 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-882** **Goat-anti-rat**—AzureSpectra 550 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-818** **Goat-anti-guinea pig**—AzureSpectra 550 conjugated secondary antibody for fluorescent Westerns, 250 µl
- 75794-820** **Donkey-anti-goat**—AzureSpectra 550 conjugated secondary antibody for fluorescent Westerns, 250 µl

HRP secondary antibodies

- 10147-304** **Goat-anti-rabbit**—HRP conjugated secondary antibody for chemi Westerns, 500 µl
- 10147-306** **Goat-anti-mouse**—HRP conjugated secondary antibody for chemi Westerns, 500 µl
- 10147-308** **Goat-anti-human**—HRP conjugated secondary antibody for chemi Westerns, 500 µl
- 10147-310** **Goat-anti-chicken**—HRP conjugated secondary antibody for chemi Westerns, 500 µl
- 10147-312** **Goat-anti-rat**—HRP conjugated secondary antibody for chemi Westerns, 500 µl
- 10147-314** **Goat-anti-guinea pig**—HRP conjugated secondary antibody for chemi Westerns, 500 µl
- 75794-866** **Donkey-anti-goat**—HRP conjugated secondary antibody for chemi Westerns, 500 µl

AzureSpectra Demo Kits

- 75804-628** **Goat-anti-mouse 700**—kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 700 secondary antibody
- 75804-630** **Goat-anti-rabbit 700**—kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 700 secondary antibody
- 75804-632** **Goat-anti-mouse 800**—kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 800 secondary antibody

PRODUCTS

Ordering information

Part no. Description

AzureSpectra Demo Kits, *continued*

- 75804-656** **Goat-anti-rabbit 800**—kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 800 secondary antibody
- 75804-658** **Goat-anti-mouse 650**—kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 650 secondary antibody
- 75804-622** **Goat-anti-rabbit 650**—kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 650 secondary antibody
- 75804-624** **Goat-anti-mouse 550**—kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-mouse 550 secondary antibody
- 75804-626** **Goat-anti-rabbit 550**—kit contains 1 PVDF membrane, blocking buffer, wash buffer, goat anti-rabbit 550 secondary antibody

AzureSpectra Labeling Kits

- 75794-836** **For Westerns – 490**—for covalently labeling antibodies with a fluorescent dye. Includes labeling buffer, dye solution, quenching solution, neutralization buffer and two G-25 columns. Each kit includes sufficient reagents to perform two labellings of 50 micrograms of antibody.
- 75794-842** **For Westerns – 550**—for covalently labeling antibodies with a fluorescent dye. Includes labeling buffer, dye solution, quenching solution, neutralization buffer and two G-25 columns. Each kit includes sufficient reagents to perform two labellings of 50 micrograms of antibody.
- 75794-844** **For Westerns – 650**—for covalently labeling antibodies with a fluorescent dye. Includes labeling buffer, dye solution, quenching solution, neutralization buffer and two G-25 columns. Each kit includes sufficient reagents to perform two labellings of 50 micrograms of antibody.
- 75794-840** **For Westerns – 700**—for covalently labeling antibodies with a fluorescent dye. Includes labeling buffer, dye solution, quenching solution, neutralization buffer and two G-25 columns. Each kit includes sufficient reagents to perform two labellings of 50 micrograms of antibody.
- 75794-838** **For Westerns – 800**—for covalently labeling antibodies with a fluorescent dye. Includes labeling buffer, dye solution, quenching solution, neutralization buffer and two G-25 columns. Each kit includes sufficient reagents to perform two labellings of 50 micrograms of antibody.

Part no. Description

Azure cSeries

- 10147-214** **c600**—includes 8.3 MP CCD camera cooled -50°C below ambient, 0.95 motorized fixed lens, Win 8 tablet computer, dual wavelength UV transilluminator at 302 and 365 nm, Orange Tray, Blot Tray, EPI blue LEDs (470 nm) for gel applications, EPI Red, Green, Blue LEDs (628 nm, 530 nm and 457 nm) for multiplex Western applications, laser diodes at 660 nm and 785 nm for NIR multiplex Western applications, 7 position motorized filter wheel with 6 filters standard, cSeries touch screen capture software, AzureSpot N3 analysis software (3 network floating licenses) or AzureSpot Standalone (2 standalone licenses).
- 10147-216** **c500**—includes 8.3 MP CCD camera cooled -50°C below ambient, 0.95 motorized fixed lens, Win 8 tablet computer, dual wavelength UV transilluminator at 302 and 365 nm, Orange Tray, Blot Tray, EPI blue LEDs (470 nm) for gel applications, laser diodes at 660 nm and 785 nm for NIR multiplex Western applications, 7 position motorized filter wheel with 3 filters standard, cSeries touch screen capture software, AzureSpot N3 analysis software (3 network floating licenses) or AzureSpot Standalone (2 standalone licenses).
- 10147-218** **c400**—includes 8.3 MP CCD camera cooled -50°C below ambient, 0.95 motorized fixed lens, Win 8 tablet computer, dual wavelength UV transilluminator at 302 and 365 nm, Orange Tray, Blot Tray, EPI blue LEDs (470 nm) for gel applications, EPI Red, Green, Blue LEDs (628 nm, 530 nm and 457 nm) for multiplex Western applications, 7 position motorize filter wheel with 4 filters standard, cSeries touch screen capture software, AzureSpot N3 analysis software (3 network floating licenses) or AzureSpot Standalone (2 standalone licenses).
- 10147-220** **c300**—includes 8.3 MP CCD camera cooled -50°C below ambient, 0.95 motorized fixed lens, Win 8 tablet computer, dual wavelength UV transilluminator at 302 and 365 nm, Orange Tray, Blot Tray, EPI blue LEDs (470 nm) for gel applications, 7 position motorized filter wheel with 1 filter standard, cSeries touch screen capture software, AzureSpot N3 analysis software (3 network floating licenses) or AzureSpot Standalone (2 standalone licenses).



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