

Azure Biosystems Solutions for Western Blotting



Protein stains • Chemiluminescent Substrates • Secondary HRP Antibodies • Secondary Fluorescent Antibodies • Fluorescent Western Kits • Membranes • Buffers • Blot Development Accessories

Chemiluminescent Substrates

Secondary HRP Antibodies

Fluorescent Secondary Antibodies

Fluorescent Western Kits

Protein Stains

Buffers

Pre-cut Western Blotting Membranes

Blot Development Accessories



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Chemiluminescent Substrates

Azure offers two chemiluminescent substrates designed for CCD imaging. Choose Radiance for long-lasting signal and a wide dynamic range, and Radiance Plus for rapid detection of low-abundance proteins.



Radiance

- Wide dynamic range for detecting bright and weak bands in one exposure
- Long-lasting signal

Radiance Plus

- High sensitivity and low background for detecting low-abundance proteins
- Rapidly detect femtograms of protein

Part Number	Name	Description	Size
AC2101	Radiance	HRP Substrate for CCD Imaging – contains substrate for 1500 cm ² membrane	150 ml
AC2103	Radiance Plus	Femtogram-sensitivity HRP Substrate – contains substrate for 1500 cm ² membrane	150 ml

Secondary HRP Antibodies

Azure's HRP-conjugated secondary antibodies are compatible with a variety of chemiluminescent substrates and are optimized for use with Radiance and Radiance Plus chemiluminescent substrates. For detection of chemiluminescent Western blots, choose the HRP-conjugated antibody with specificity for the species of the primary antibody used in the experiment.



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



Fluorescent Secondary Antibodies

Infrared and Near-IR Fluorescently Labeled Secondary Antibodies

Azure offers secondary antibodies labeled with fluorophores detected in infrared and near-infrared wavelengths. AzureSpectra 700 and 800 secondary antibodies deliver enhanced sensitivity due to low background autofluorescence in the near-infrared region and, therefore, higher signal to noise ratios.



Part Number	Name	Description	Size
AC2128	Goat-anti-rabbit secondary antibody – AzureSpectra 700	AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2129	Goat-anti-mouse secondary antibody – AzureSpectra 700	AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2130	Goat-anti-human secondary antibody – AzureSpectra 700	AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2131	Goat-anti-chicken secondary antibody – AzureSpectra 700	AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2132	Goat-anti-rat secondary antibody – AzureSpectra 700	AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2133	Goat-anti-guinea pig secondary antibody – AzureSpectra 700	AzureSpectra 700 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2134	Goat-anti-rabbit secondary antibody – AzureSpectra 800	AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2135	Goat-anti-mouse secondary antibody – AzureSpectra 800	AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2136	Goat-anti-human secondary antibody – AzureSpectra 800	AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2137	Goat-anti-chicken secondary antibody – AzureSpectra 800	AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2138	Goat-anti-rat secondary antibody – AzureSpectra 800	AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns	250 µl
AC2139	Goat-anti-guinea pig secondary antibody – AzureSpectra 800	AzureSpectra 800 conjugated secondary antibody for fluorescent Westerns	250 µl

Azure Biosystems
Solutions for Western Blotting



Fluorescent Western Kits

Azure's Western blotting kits provide a convenient way to purchase reagents and membranes optimized for imaging on the Azure cSeries instruments. The Western blotting kits provide secondary antibodies, blocking buffer, washing solution and PVDF membranes for 10 Western blots.



Part Number	Name	Description	Size
AC2140	AzureSpectra rb700/ms800 Western Kit	Kit contains materials for 10 Western Blots – PVDF membranes, wash buffer, blocking buffer, goat-anti-rabbit IR700, goat-anti-mouse IR800	10 blots
AC2141	AzureSpectra ms700/rb800 Western Kit	Kit contains materials for 10 Western Blots – PVDF membranes, wash buffer, blocking buffer, goat-anti-mouse IR700, goat-anti-rabbit IR800	10 blots
AC2104	AzureSpectra rb660/ms578 Western Kit	Kit contains materials for 10 Western Blots – PVDF membranes, wash buffer, blocking buffer, goat-anti-rabbit 660, goat-anti-mouse 578	10 blots

Protein Stains

Protein stains are used to visualize all of the protein bands on a gel or membrane.

AzureRed Fluorescent Protein Stain – Choose AzureRed Fluorescent Protein Stain for sensitive detection of total protein on 1D or 2D gels. AzureRed is as sensitive as silver stain and is compatible with downstream Western blotting, mass spectrometry, and Edman sequencing. Because the free dye is non-fluorescent, AzureRed provides very low background and higher signal to noise than other fluorescent stains. AzureRed-stained gels can be imaged with UV or blue light excitation.



Azure Ponceau Stain – Choose Azure Ponceau to detect total protein transferred to membranes. This stain is reversible and can be used to check the efficiency of protein transfer before immunodetection.

Part Number	Name	Description	Size
AC2124	AzureRed Fluorescent Protein Stain	Fluorescent total protein stain for 1D and 2D gels – sufficient for 20 minigels	5 ml
AC2125	Azure Ponceau Stain	Visible reversible total protein stain for proteins transferred to membrane – sufficient for staining 50 blots 9x7 cm	500 ml

Buffers

Azure Fluorescent Blot Blocking Buffer – Azure Fluorescent Blot Blocking Buffer is a protein-free blocking solution, optimized for use with fluorescent Western blots, and also an excellent blocking reagent for chemiluminescent Western blotting. Azure Fluorescent Blot Blocking Buffer 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. With low-quality primary antibodies that may require protein-based blocking agents, BSA or non-fat dry milk can be dissolved directly in the Azure Fluorescent Blot Blocking Buffer used to dilute the antibody. Provided as a 5X concentrate.



Azure Fluorescent Blot Washing Buffer – Azure Fluorescent Blot Washing Buffer can be used with any Western blotting system, including all chemiluminescent HRP substrates and fluorescent Western blotting kits. Provided as a 10X concentrate.

Azure IR Fluorescent Blot Washing Buffer – Azure IR fluorescent blot washing buffer has been designed for IR Western blots, and helps further reduce background. Provided as a 10X concentrate.

Azure Transfer Buffer – Achieve improved detection of low-abundance and posttranslationally modified proteins with Azure Transfer Buffer. High-efficiency protein transfer and increased protein retention on the membrane add up to more sensitive Western blots.

Part Number	Name	Description	Size
AC2112	Azure Fluorescent Blot Blocking Buffer	Protein-free Blocking Solution for Fluorescent Immunoblots – 5x concentrate	200 ml
AC2113	Azure Fluorescent Blot Washing Buffer	Immunoblot Washing Solution – 10x concentrate	500 ml
AC2145	Azure IR Fluorescent Blot Washing Buffer	Immunoblot Washing Solution for use with IR secondaries – 10x concentrate	500 ml
AC2127	Azure Transfer Buffer	50x concentrated solution sufficient for 50-100 blots	500 ml

Pre-cut Western Blotting Membranes

Azure offers pre-cut nitrocellulose and PVDF membranes for a variety of Western blotting applications.



Part Number	Name	Description	Size
AC2105	Low Fluorescence Western Membrane (PVDF)	Pre-cut PVDF membrane – 9x7 cm mini vertical gels	10 sheets
AC2106	Nitrocellulose Transfer Membrane – 0.45 µm	Pre-cut membrane – 8x10 cm mini vertical gels – ideal for larger proteins	10 sheets
AC2107	Nitrocellulose Transfer Membranes – 0.22 µm	Pre-cut membrane – 8x10 cm mini vertical gels – ideal for smaller proteins	10 sheets
AC2108	Low Fluorescence Western Membrane (PVDF)	Pre-cut PVDF membrane – 10x15 cm vertical gels	10 sheets
AC2109	Low Fluorescence Western Membrane (PVDF)	Pre-cut PVDF membrane – 13x18 cm-vertical gels	10 sheets

Blot Development Accessories

Azure offers a variety of accessories for electrophoresis and Western blotting.

Quenching Sheets – Use these quenching sheets under your blot when imaging fluorescent Westerns. The sheets reduce background autofluorescence, improving the quality of your image.

Blotting Paper for Western Blotting – For the easiest Western blotting workflow, use these pre-cut blotting papers when assembling transfer “sandwiches”. Save time and reduce waste by not measuring and cutting blotting papers to the size of your mini gels.

Blot Development Folders – These transparent plastic folders hold your blot during handling and imaging. Blot development folders provide a wrinkle-free alternative to plastic wrap.

Incubation Trays – These specially designed incubation trays are ideal for staining and washing electrophoresis gels and membranes. Available in a range of sizes. Opaque trays are ideal for light-sensitive applications.



Part Number	Name	Description	Size
AC2144	Quenching Sheets	Background quenching sheets, for use with fluorescent or chemiluminescent samples	10 sheets
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 blotting transfer – 8x10 cm vertical gels	60 sheets
AC2126	Blot Development Folder	Transparent plastic sheets to hold blots for imaging – alternative to plastic wraps	100 sheets
AC2120	Incubation Tray – 7x5 cm (opaque black top and bottom)	For staining and washing light sensitive gels and membranes	5 trays
AC2121	Incubation Tray – 9x6 cm (opaque black top and bottom)	For staining and washing light sensitive gels and membranes	4 trays
AC2122	Incubation Tray – 11x9 cm (opaque black top and bottom)	For staining and washing light sensitive gels and membranes	3 trays
AC2123	Incubation Tray – 15.5x10.5 cm (opaque black and bottom)	For staining and washing light sensitive gels and membranes	2 trays



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