Azure Blot Blocking Buffers

Blocking is a crucial step in the Western blot process for obtaining clear, accurate and reliable results. **Azure Biosystems' Blot Blocking Buffers** not only reduce non-specific binding that can lead to high background and uninterpretable blots but also enhance the signal of your chemi or fluorescent blots, all while reducing the length of your Western blot protocol.

AZURE CHEMI BLOT BLOCKING BUFFER

A) Azure Chemi Blot Blocking Buffer B) 5% Milk in PBS-Tween

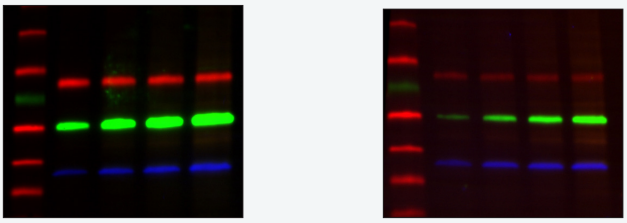
Samples containing 0.5-4 µg of cell lysate were probed with antibodies targeting phospho-STAT-3.
A) was blocked with Azure Chemi Blot Blocking Buffer
B) was blocked with the lab standard 5% milk in PBS-Tween.

Brighter bands with less background for chemi blots

Azure Chemi Blot Blocking Buffer was formulated specifically for chemiluminescent Western blots to enhance signal by stabilizing antibody-antigen complexes and to lower background through the reduction of non-specific binding. Provided as a 1x solution that comes ready-to-use with no mixing or dilutions required.

AZURE FLUORESCENT BLOT BLOCKING BUFFER

A) Azure Fluorescent Blot Blocking Buffer B) 5% Milk in PBS-Tween



Samples containing 1-5 µg of cell lysate were probed for three target proteins and detected with AzureSpectra fluorescent secondary antibodies.
A) was blocked with Azure Fluorescent Blot Blocking Buffer
B) was blocked with the lab standard 5% milk in PBS-Tween.

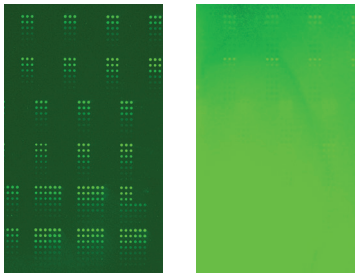
Enhanced signal-to-noise ratios for fluorescent blots

Azure Fluorescent Blot Blocking Buffer enhances fluorescent Western blots by stabilizing and enhancing specific antibody-antigen complexes while simultaneously reducing non-specific binding for decreased background fluorescence. This buffer is provided as a 1x solution specifically optimized to be ready for immediate use and to work with your existing reagents.

AZURE PROTEIN-FREE BLOT BLOCKING BUFFER

Duplicate dot blots were processed and imaged identically except for the blocking step.
A) was blocked with Azure Protein-Free Blot Blocking Buffer
B) was blocked with the lab standard 5% milk in TBST

A) Azure Protien-Free Blot Blocking Buffer B) 5% Milk in TBST



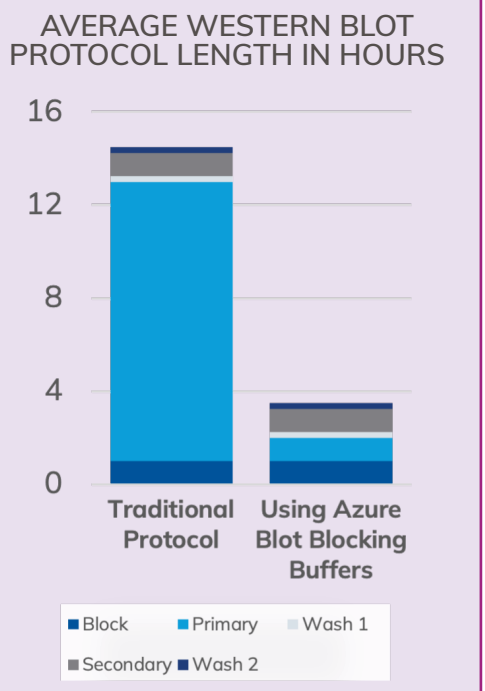
Reduced background for cross-reactive antibodies

Azure Protein-Free Blot Blocking Buffer is a protein-free blocking solution for use with both fluorescent and chemiluminescent Western blots. Azure Protein-Free 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. Provided as a 5x concentrate.

Azure Biosystems' unique blocking formulas not only reduce background for cleaner, more visible bands but also stabilize and enhance specific antibody-antigen complexes, maximizing signal strength.

Every Azure Blot Blocking Buffer is formulated to allow blocking and antibody incubation steps of **just one hour** at ambient temperature for clear, reliable data in a fraction of the time.

Azure Blot Blocking Buffers allow you to minimize your background while maximizing your signal and your time



WHICH BLOCKING BUFFER IS RIGHT FOR YOU?

	Chemi Blot Blocking Buffer	Fluorescent Blot Blocking Buffer	Protein-Free Blot Blocking Buffer
Ready-to-Use	✓	✓	
Offered as a concentrate			✓
Compatible with chemiluminescence	✓		✓
Compatible with fluorescence detection		✓	✓
Blocks in 1 hour at room temperature	✓	✓	✓
1 hour primary antibody incubation at room temperature	✓	✓	✓
Enhances antibody binding	✓	✓	
Enhances signal	✓	✓	
Formulated for use with antibodies with high cross-reactivity to protein-based blockers			✓

ORDERING INFORMATION

Part Number	Name	Description	Size
AC2148	Azure Chemi Blot Blocking Buffer	Ready-to-use block - 1x Ready-to-Use solution	500 mL
AC2190	Azure Fluorescent Blot Blocking Buffer	Ready-to-use block - 1x Ready-to-Use solution	500 mL
AC2112	Azure Protein-Free Blot Blocking Buffer	Protein-free blocking solution for fluorescent Immunoblots - 5x concentrate	200 mL

REQUEST A SAMPLE

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SD-0184-01