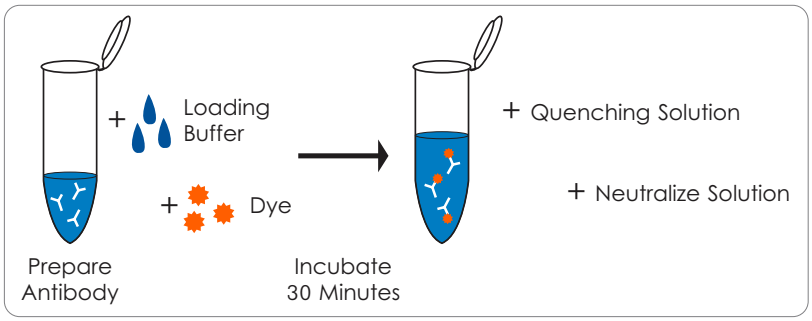
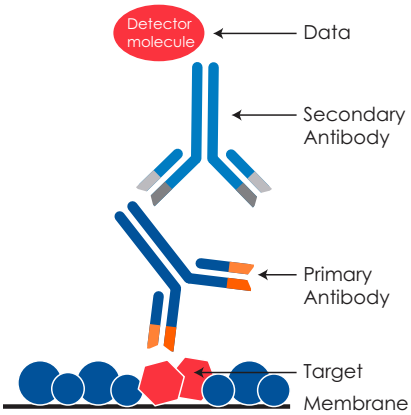
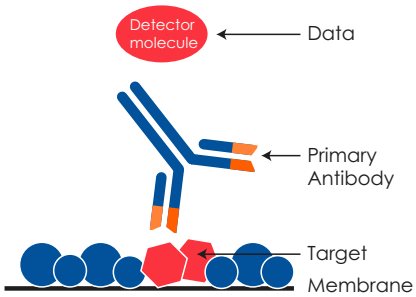
AzureSpectra Labeling Kits

Simple labeling protocol



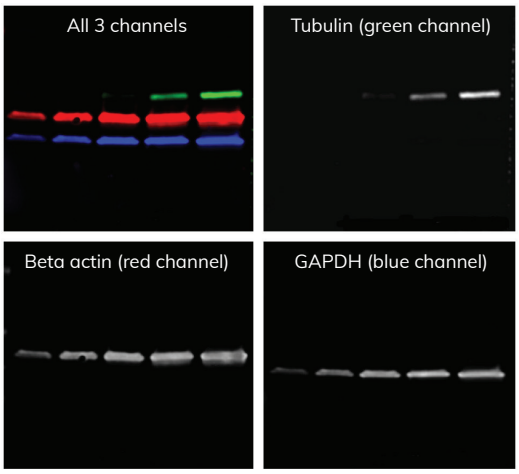


Indirect
Secondary antibody is labeled



Direct
Primary antibody is labeled

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.

	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

Frequently Asked Questions

Why would I directly label my antibodies?

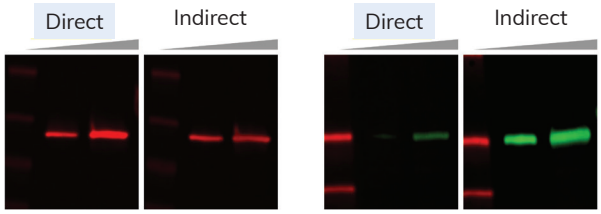
With directly-labeled primary antibodies, you can multiplex using antibodies of the same species and reduce experiment time by cutting out a secondary antibody incubation step.

What can labeled antibodies be used for?

Labeled antibodies are compatible with multiple immunofluorescent applications including Western blotting, immunofluorescent microscopy and flow cytometry. Perform multi-color experiments by directly labeling your validated primary antibodies or the secondary antibodies of your choice.

Is the sensitivity of Direct Western blots equal to that of Indirect Western blots?

The signal amplification of a direct Western blot is antibody dependent and needs to be assessed on a case-by-case basis.



Mouse anti-GAPDH 700 | Rat anti-Tubulin 800

What is the labeling efficiency of the AzureSpectra Labeling Kits?

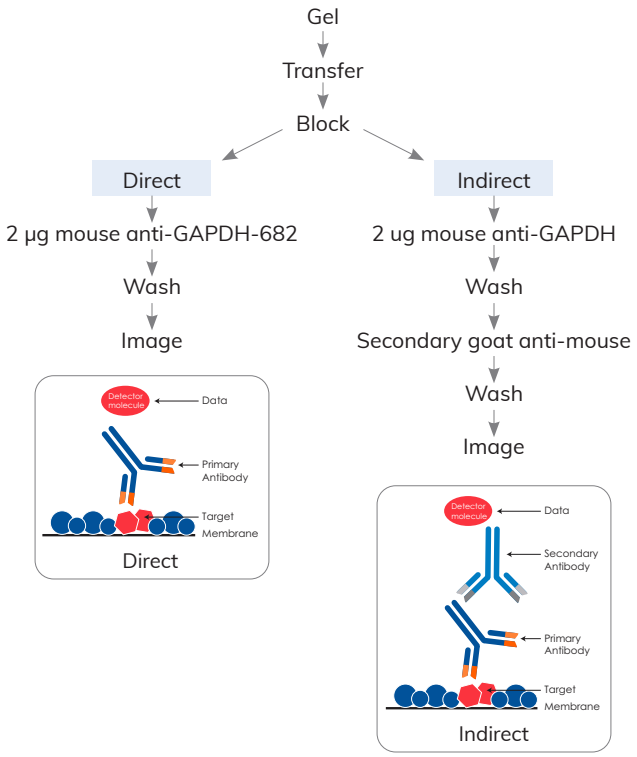
The labeling efficiency is approximately 2 dye molecules per antibody molecule.

Will this kit work with my antibody?

For best performance and labeling efficiency, antibodies must be in a primary amine-free buffer such as PBS, MOPS, HEPES or MES. If antibody is in an incompatible buffer, we recommend exchanging the buffer to 1x PBS using dialysis or the provided G-25 desalting spin columns. Refer to the labeling kit protocol for more information.

Which Western blot method is best for my needs?

Direct Westerns save time and allow for multiplexing with antibodies from the same or similar species. However, indirect Westerns can provide increased sensitivity depending on the integrity and robustness of the primary antibody.



Ordering information

Part Number	Name	Includes
AC2185	AzureSpectra Labeling Kit – 490	• Labeling Buffer • Dye solution • Quenching solution • Neutralization buffer • Two G-25 columns
AC2186	AzureSpectra Labeling Kit – 550	
AC2187	AzureSpectra Labeling Kit – 650	
AC2188	AzureSpectra Labeling Kit – 700	
AC2189	AzureSpectra Labeling Kit – 800	

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

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