

SpectraDye™ Antibody Labeling Kits

Fluorescently label antibodies in one easy step

SpectraDye Antibody Labeling Kits contain everything you need to produce covalently labeled, fluorescent antibodies in only 30 minutes. Choose from commonly used fluorescent dyes and label your antibody in a single step. Labeled antibodies are compatible with immunofluorescence applications including flow cytometry, Western blotting, and immunofluorescence microscopy so you can validate your results across multiple platforms using the same antibody.



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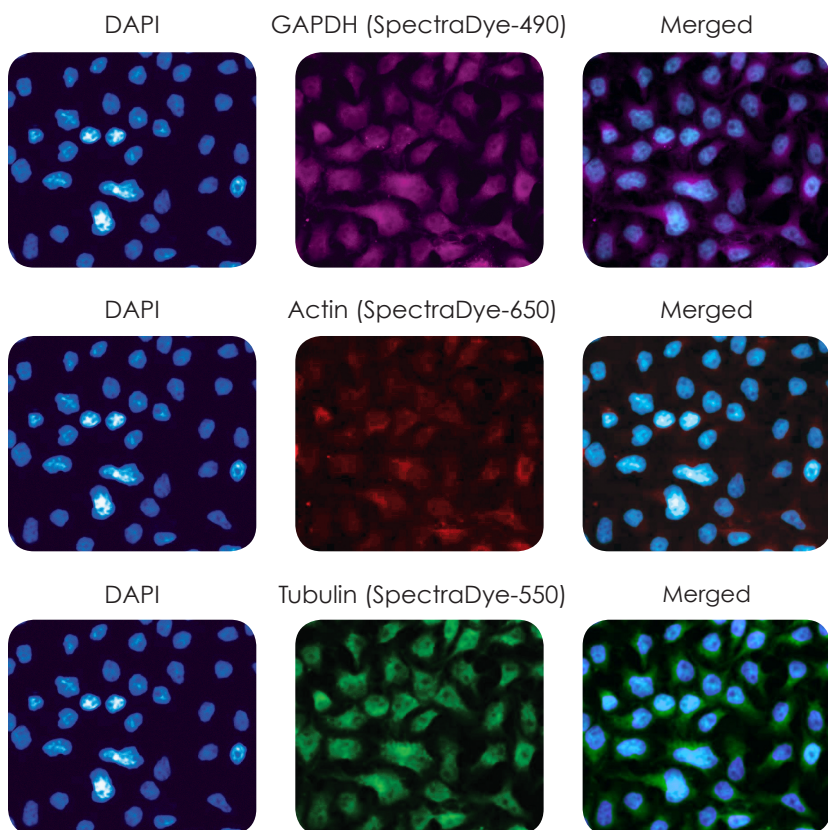


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Microscopy

Decrease non-specific binding and eliminate species cross-reactivity when analyzing multiple antigens on the same slide.



Increase the specificity of multicolor stained slides by using high quality monoclonal antibodies. HeLa cells were fixed on a glass coverslip then blocked with neutral donkey serum. The cells were then stained simultaneously with a panel of high-affinity SpectraDye labeled mouse monoclonal antibodies. The anti-GAPDH antibody was labeled with SpectraDye-490 (shown in magenta), the anti-actin antibody was labeled with SpectraDye-650 (shown in red) and the anti-tubulin antibody was labeled with SpectraDye-550 (shown in green). The Nuclei were stained with DAPI (shown in blue).

Advansta Solutions

Are you experiencing high background in your immunofluorescence experiments?

Using a secondary antibody can result in high background and low reproducibility. Switching to a directly labeled primary antibody can improve your results.

Interested in single-color fluorescent applications?

Direct labeling of your antibody increases reproducibility, and allows the same antibody to be used in various applications to validate results.

Interested in multi-color fluorescent applications?

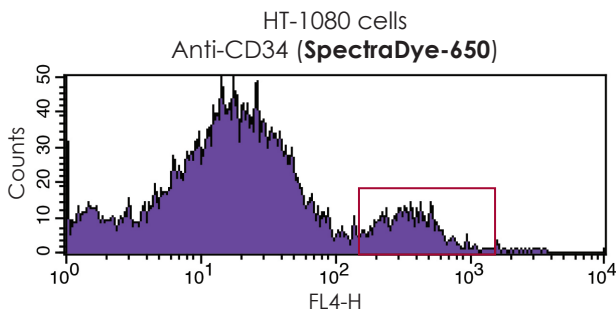
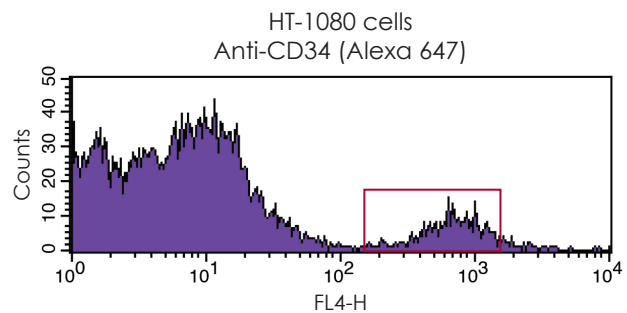
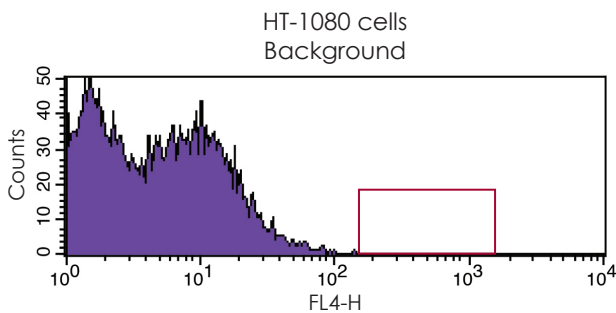
With 6 dyes to choose from, SpectraDye Antibody Labeling Kits give you tremendous flexibility, and since you don't need secondary antibodies, the species of your primary antibody does not matter.

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Flow cytometry

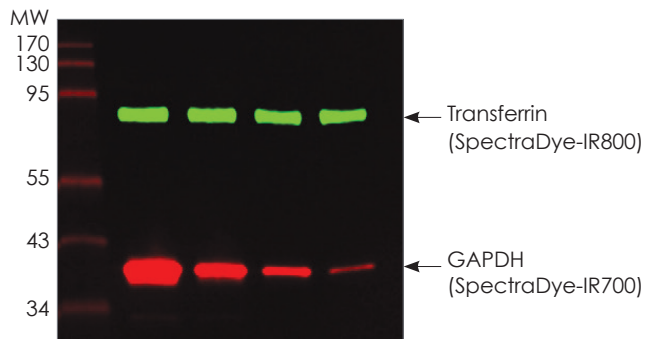
Simplify your assay to decrease variability and improve data quality.



SpectraDye Antibody Labeling Kits produce antibodies comparable to commercially available fluorescent antibodies. 200,000 HT1080 cells were spiked with 25 μ L of StemTrol CD34+ cells in a total volume of 1 mL of 0.5% BSA/1XPBS. The same anti-CD34 antibody clone was labeled with SpectraDye Antibody labeling kit-Dye 650 or with Alexa Fluor® 647 (BioLegend). Labeled antibodies were added to the cells at a concentration of 10 μ g/mL. The cells were incubated for 30 minutes in the dark then washed 3 times before sorting. *Image courtesy of Lab for Cell Analysis (LCA), UCSF Helen Diller Cancer Center.*

Western blotting

Save valuable time since secondary antibody incubation and wash steps are no longer required.



Detect two or more proteins in a single fluorescent Western blot experiment using SpectraDye-labeled primary antibodies. Transferrin (500 ng/lane) and GAPDH (500, 167, 56, and 19 ng/lane) were transferred to a PVDF membrane and detected with a rabbit anti-transferrin antibody labeled with SpectraDye-IR800 and a mouse anti-GAPDH antibody labeled with SpectraDye-IR700.

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Advantages

- **RAPID** – one-step labeling is complete in 30 minutes
- **VERSATILE** – labeled antibody may be used in flow cytometry, Western blotting, or immunofluorescence microscopy
- **FLEXIBLE** – choose from a broad set of commonly used fluorescent dyes
- **SAVE TIME AND MONEY** – stop buying secondary antibodies; no more secondary antibody incubations and washes
- **SAVE ANTIBODY** – the labeling reaction requires as little as 10 µg of antibody



	Excitation maximum (nm)	Emission maximum (nm)
■ SpectraDye Antibody Labeling Kit-350	353	432
■ SpectraDye Antibody Labeling Kit-490	491	515
■ SpectraDye Antibody Labeling Kit-550	551	565
■ SpectraDye Antibody Labeling Kit-650	653	672
■ SpectraDye Antibody Labeling Kit-IR700	690	709
■ SpectraDye Antibody Labeling Kit-IR800	783	800

Ordering Information

Catalog Number	Product	Size	Each SpectraDye Antibody Labeling kit includes the following
K-11054-010	SpectraDye™ Antibody Labeling Kit-350	1 kit	• Antibody Labeling Buffer • SpectraDye Dye Solution* • Quenching Solution • Neutralization Buffer Each kit includes sufficient reagents to label up to 1 mg of antibody
K-11055-010	SpectraDye™ Antibody Labeling Kit-490	1 kit	
K-11056-010	SpectraDye™ Antibody Labeling Kit-550	1 kit	
K-11057-010	SpectraDye™ Antibody Labeling Kit-650	1 kit	
K-11058-010	SpectraDye™ Antibody Labeling Kit-IR700	1 kit	
K-11059-010	SpectraDye™ Antibody Labeling Kit-IR800	1 kit	
K-11060-010	SpectraDye™ Antibody Labeling Kit, user-supplied dye	1 kit	

* Kit K-11060-010 (user-supplied dye) does not include SpectraDye Dye Solution

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Product information: www.advansta.com/products/SpectraDye

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