

Looking for an alternative to CyDye™ Reactive Fluors and Conjugates?

NEW DyLight™ Reactive Fluors and Conjugates deliver!

New DyLight™ Reactive Fluors and Conjugates are an excellent alternative to Cy3™ and Cy5™ Fluors, providing greater photostability and fluorescence over a broad range of pH values. The absorption spectra of the DyLight™ 547 Fluor and the DyLight™ 647 Fluor closely match that of the Cy3™ and Cy5™ Fluors, respectively, enabling researchers to transition seamlessly from CyDye™ Fluors to DyLight™ Fluors without purchasing new filters.

Highlights:

DyLight™ Reactive Fluors

- Researchers can transition from CyDye™ Fluors to DyLight™ Fluors seamlessly
- DyLight™ 547 Fluor replaces Cy3™ Fluor
- DyLight™ 647 Fluor replaces Cy5™ Fluor
- NHS-ester fluors react with primary amines; maleimide fluors react with sulfhydryls
- Soluble – readily reactive in aqueous solution
- Function over a wide range of pH values
- High-purity ensures reliable protein/peptide labeling
- Greater photostability than the CyDye™ Fluors

DyLight™ Antibody and Streptavidin Conjugates

- Molar ratio (dye:protein) optimized to provide excellent fluorescent intensity
- Antibody conjugates are affinity-purified
- Antibody and streptavidin conjugates are stable for 1 year at 4°C

DyLight™ Fluors have demonstrated improved performance in several applications:

- Immunofluorescent staining (Figure 1)
- ELISA (Figure 2)
- Flow cytometry (Figure 3)
- Western blotting (Figure 4)
- Plate-based functional assays

DyLight™ Spectral Characteristics

	Excitation (nm)	Emission (nm)	Extinction Coefficient (min)
DyLight™ 547 Dye	557	574	150,000 M ⁻¹ cm ⁻¹
DyLight™ 647 Dye	652	673	250,000 M ⁻¹ cm ⁻¹

Immunohistochemical Staining

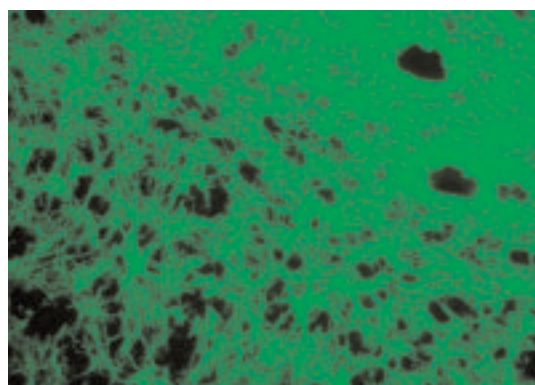


Figure 1. Immunohistochemical staining with DyLight™ Fluors. Human brain tissue was stained for glial fibrillary acidic protein (GFAP) using mouse anti-human GFAP (clone: 6F2). DyLight™ 547 Fluor was used to label the goat anti-mouse secondary antibody.



Plate-based Functional Assay

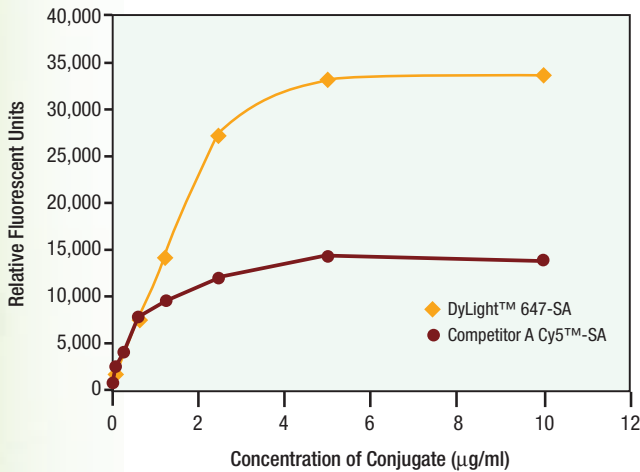


Figure 2. DyLight™ 647-Streptavidin Conjugate produces more signal than Cy5™-Streptavidin Conjugates in ELISA applications.

Western Blotting



Figure 4. Detection of down-regulation of extracellular signal-regulated kinase (ERK) using DyLight™ 647 Goat Anti-Rabbit Antibody. A431 cell lysate was separated by SDS-PAGE and transferred to nitrocellulose membrane. The membrane was probed with rabbit anti-ERK followed by DyLight™ 647 Goat Anti-Rabbit antibody. Lane 1: lysate from control cells, Lane 2: lysate from cells treated for 24 hours with EGF and Lane 3: lysate from cells treated 5 minutes with EGF.

Flow Cytometry

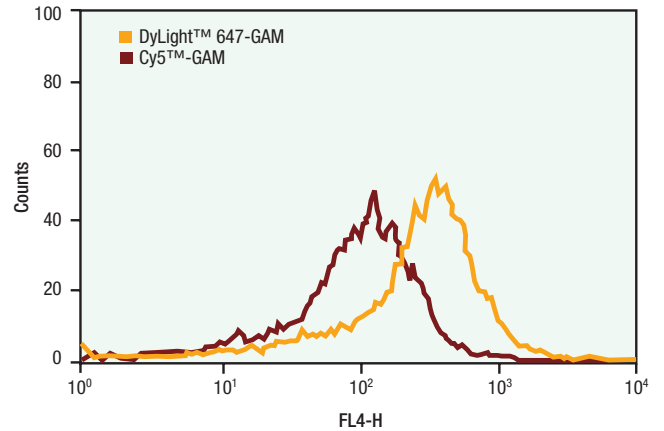


Figure 3. DyLight™ Fluors yield more signal in flow cytometry applications. CD3 receptors on Jurkat cells were labeled with either DyLight™ 647 Fluor or Cy5™ Fluor. DyLight™ 647 Fluor-labeled secondary antibody resulted in a greater median/mean channel shift compared to the same sample treated with a Cy5™ Fluor-labeled secondary antibody at the same concentration, indicative of the brighter fluorescence of DyLight™ Fluors.

Ordering Information

DyLight™ Fluor Antibody and Streptavidin Conjugates

PRODUCT #	DESCRIPTION	PKG. SIZE
31010	DyLight™ 547 Fluor, Goat Anti-Mouse IgG (H + L) Conjugated	1 ml (1 mg/ml)
31015	DyLight™ 647 Fluor, Goat Anti-Mouse IgG (H + L) Conjugated	1 ml (1 mg/ml)
31020	DyLight™ 547 Fluor, Goat Anti-Rabbit IgG (H+L) Conjugated	1 ml (1 mg/ml)
31025	DyLight™ 647 Fluor, Goat Anti-Rabbit IgG (H+L) Conjugated	1 ml (1 mg/ml)
21424	DyLight™ 547 Fluor, Streptavidin Conjugated	1 ml (1 mg/ml)
21824	DyLight™ 647 Fluor, Streptavidin Conjugated	1 ml (1 mg/ml)

DyLight™ Reactive Fluors

PRODUCT #	DESCRIPTION	PKG. SIZE
46200	DyLight™ 547 NHS-Ester	1 mg
46205	DyLight™ 647 NHS-Ester	1 mg
46300	DyLight™ 547 Maleimide	1 mg
46305	DyLight™ 647 Maleimide	1 mg

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PIERCE

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Outside the United States, visit our web site or call 815-968-0747 to locate your local Perbio Science branch office (below) or distributor

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