

Specializing in Secondary Antibodies and Conjugates

4-Color Imaging with DyLight 405 Conjugates

Our **DyLight 405**-conjugated secondary antibodies are excited maximally at 400 nm and fluoresce with a peak at 421 nm (Figure 1). They are very bright and photostable when used with confocal microscopes equipped with a 405 nm laser and appropriate emission filter.

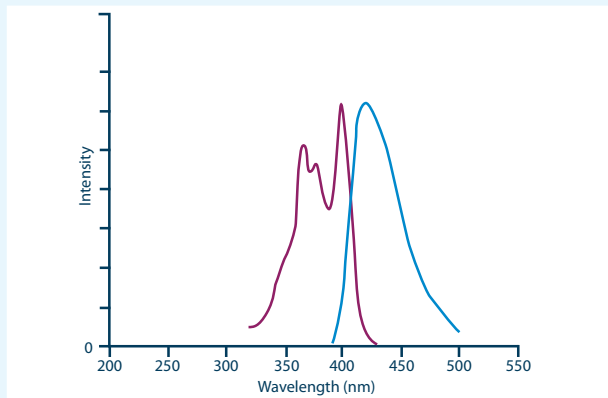


Figure 1. Excitation (violet) and emission (blue) spectra for DyLight 405 conjugated to an affinity-purified secondary antibody from Jackson ImmunoResearch. Quantitative comparisons should not be made since peak heights have been normalized. Spectra were obtained with an M-Series spectrofluorometer system from Photon Technology International, Inc

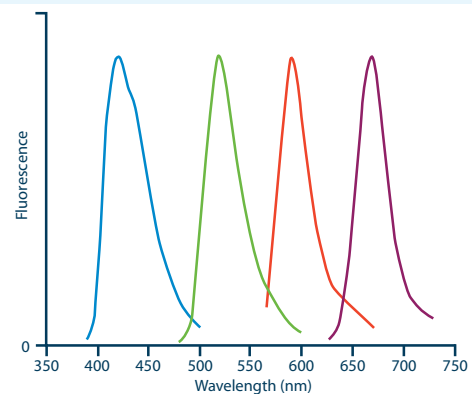


Figure 2. Emission spectra of DyLight 405 (blue), Alexa Fluor® 488 (green), Rhodamine Red-X (red), and Alexa Fluor® 647 (brown). This figure illustrates the relative shape and position of each fluorophore emission peak following conjugation to antibodies. It shows that effective 4-color imaging can be performed with maximum color separation using these dyes. Quantitative comparisons should not be made since peak heights have been normalized. All spectra were obtained with an M-Series spectrofluorometer system from Photon Technology International, Inc.

Under these conditions, it is possible to perform highly effective 4-color imaging with good color separation, good photostability, and high sensitivity in both aqueous and permanent mounting media. The combination of DyLight 405, Alexa Fluor® 488, Rhodamine Red-X, and Alexa Fluor® 647 provides for maximum color separation (Figure 2).

DyLight 405 is not recommended for use with epifluorescence microscopes without a 405 nm laser, nor is it recommended for flow cytometry with a 405 nm laser, because emission filters generally used in flow cytometers are not optimal for DyLight 405.

The following table lists highly adsorbed affinity-purified secondary antibodies, streptavidin, and immunoglobulin controls conjugated with DyLight 405 as offered by Jackson ImmunoResearch for use only in 4-color labeling protocols using a 405 nm laser-equipped confocal microscope.

For a complete listing of other DyLight 405 conjugates for 1-, 2-, and 3-color labeling, see other tables at www.jacksonimmuno.com.

Product Description		DyLight 405 A=400 nm, E=421 nm	Product Description		DyLight 405 A=400 nm, E=421 nm
Streptavidin		1.0 mg 016-470-084	Goat Anti-Mouse IgG, Fcy Subclass 3 Specific (min X Hu, Bov, Rb Sr Prot)	ML	0.5 mg 115-475-209
Donkey Anti-Chicken IgY (IgG)(H+L) (min X Bov, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat, Shp Sr Prot)	ML	0.5 mg 703-475-155	Goat Anti-Mouse IgG (H+L) (min X Rat, Hu, Bov, Hrs, Rb Sr Prot)	ML	0.5 mg 115-475-166
Donkey Anti-Goat IgG (H+L) (min X Ck, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat Sr Prot)	ML	0.5 mg 705-475-147	Donkey Anti-Rat IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Shp Sr Prot)	ML	0.5 mg 712-475-150
Donkey Anti-Guinea Pig IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat, Shp Sr Prot)	ML	0.5 mg 706-475-148	Donkey Anti-Rat IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rb, Shp Sr Prot)	ML	0.5 mg 712-475-153
Donkey Anti-Human IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Ms, Rb, Rat, Shp Sr Prot)	ML	0.5 mg 709-475-149	Goat Anti-Rat IgG (H+L) (min X Ms, Hu, Bov, Hrs, Rb Sr Prot)	ML	0.5 mg 112-475-167
Donkey Anti-Mouse IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Shp Sr Prot)	ML	0.5 mg 715-475-150	Donkey Anti-Rabbit IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rat, Shp Sr Prot)	ML	0.5 mg 711-475-152
Donkey Anti-Mouse IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Rat Shp Sr Prot)	ML	0.5 mg 715-475-151	Goat Anti-Rabbit IgG (H+L) (min X Hu, Ms, Rat Sr Prot)	ML	1.0 mg 111-475-144
Goat Anti-Mouse IgG, Fcy Subclass 1 Specific (min X Hu, Bov, Rb Sr Prot)	ML	0.5 mg 115-475-205	Donkey Anti-Sheep IgG (H+L) (min X Ck, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat Sr Prot)	ML	0.5 mg 713-475-147
Goat Anti-Mouse IgG, Fcy Subclass 2a Specific (min X Hu, Bov, Rb Sr Prot)	ML	0.5 mg 115-475-206	ChromPure Donkey IgG, whole molecule		1.0 mg 017-470-003
Goat Anti-Mouse IgG, Fcy Subclass 2b Specific (min X Hu, Bov, Rb Sr Prot)	ML	0.5 mg 115-475-207	ChromPure Goat IgG, whole molecule		1.0 mg 005-470-003
Goat Anti-Mouse IgG, Fcy Subclass 2c Specific (min X Hu, Bov, Rb Sr Prot)	ML	0.5 mg 115-475-208			

* ML= Multiple Labeling (see Multiple Labeling at www.jacksonimmuno.com for an explanation).

DyLight is a trademark of Thermo Fisher Scientific Inc and its subsidiaries.
Jackson ImmunoResearch is licensed by Thermo Fisher Scientific to manufacture and sell conjugates of DyLight Fluorescent Dyes.



Certified by BSI to ISO 9001:2015 under certificate number FM 545248.

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