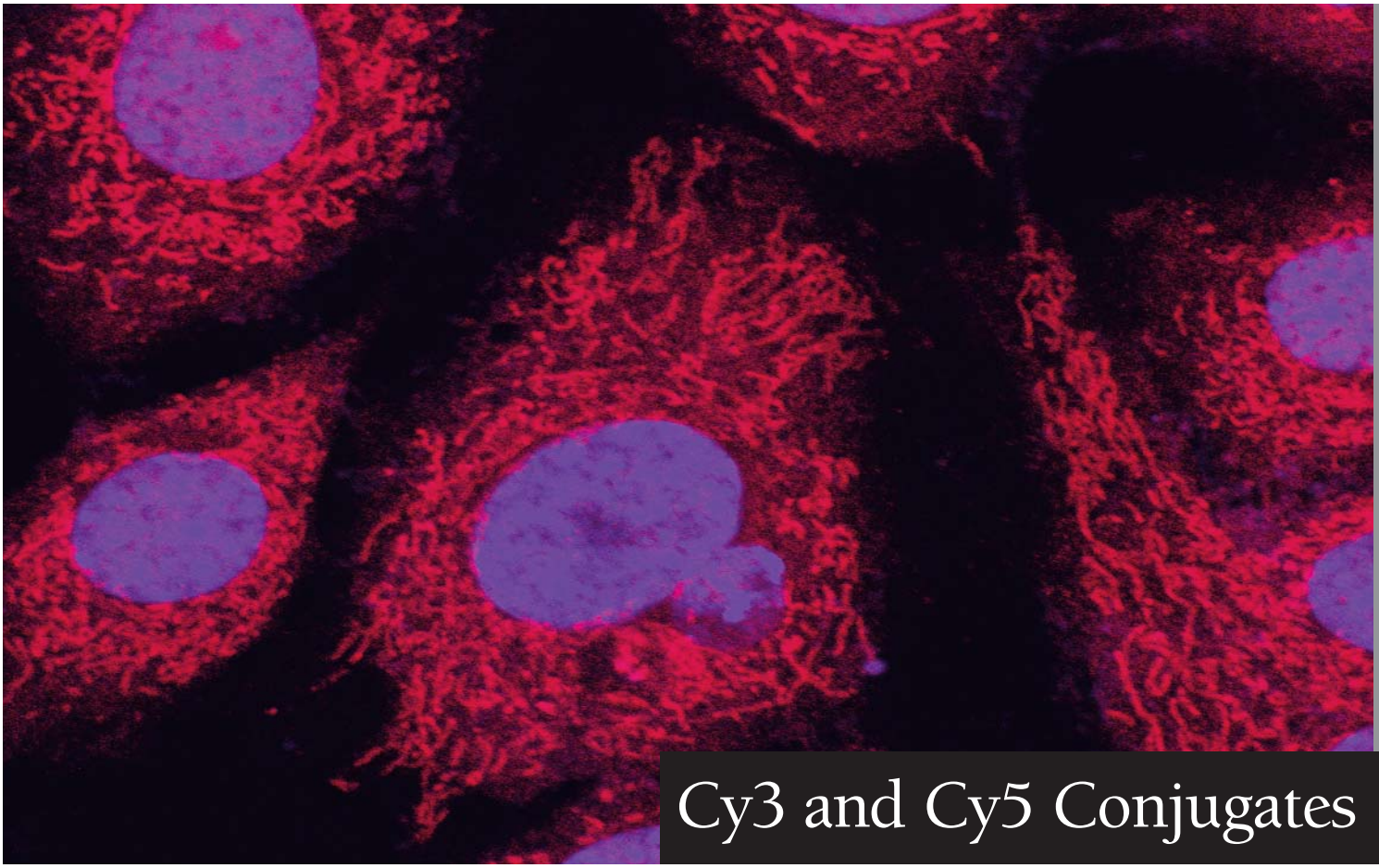
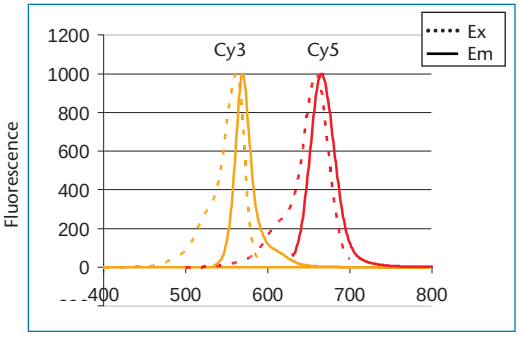


Cy3 and Cy5 Conjugates

Image above: *Confocal fluorescence micrograph of HeLa cells stained with monoclonal antibody against mitochondria enzyme and Cy3-conjugated anti-mouse antibody (red); rabbit polyclonal antibody to histones in DNA and Cy5-conjugated anti-rabbit antibody (blue).*

KPL Cy™ Dye Conjugates- Improve your assay and brighten your day!

Cy Dyes offer intense fluorescence when coupled with KPL's affinity purified antibodies and streptavidin. The sensitivity and reproducibility of KPL antibodies combined with the brightness of Cy3 and Cy5 dyes produce an exceptional set of conjugates ideal for multiple labeling experiments. Dye/protein ratios have been established to ensure optimal fluorescence with minimal background. They present maximum excitation/emission spectra at 550/570 nm (Cy3) and 650/670 nm (Cy5).



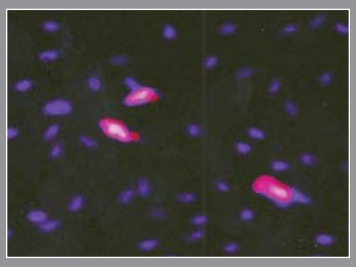
Cy dyes are excellent alternatives to most other fluorescein dyes as they are brighter and offer greater photostability. Cy Dye conjugates are used in both visual and image analysis fluorescent microscopy and *in situ* hybridization. Cy3 conjugates are ideally used in visual color applications, whereas Cy5 conjugates emit in the far red spectrum and are not easily visualized.

Benefits of KPL Cy Dye Conjugates

- High performance conjugates – optimized dye-protein ratios ensure high signal-to-noise.
- Intense fluorescence – offers greater sensitivity than TRITC conjugates.
- Narrow emission spectra – enables sensitive, multi-color analysis.
- Excellent photostability – more photostable than TRITC conjugates.
- Consistent performance – minimal lot-to-lot variation reduces need for assay optimization.
- Buffer stability – after rehydration, conjugates are stable at pH 4-9.
- Instrument compatibility – excitation and emission spectra correspond with standard filter sets and laser settings.

KPL *Power Your Immunoassays*

Cy3 and Cy5 Conjugates



Cytomegalovirus-infected cells detected with a biotinylated CMV probe and the DNADetector™ Fluorescent in situ Hybridization Kit using Cy3-Streptavidin and DAPI.

Signal Detection

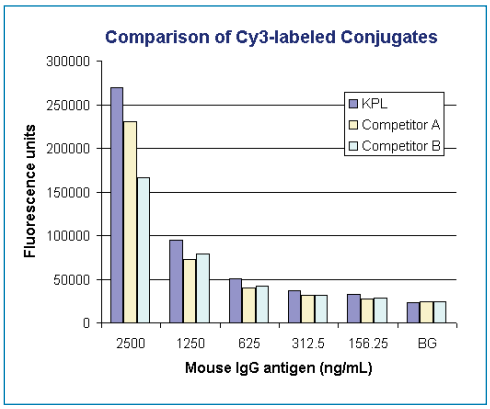
Cy3 is excited maximally at 550 nm and fluoresces maximally at 570 nm. It is excited to about 50% of maximum with an argon laser (514 nm or 528 nm lines), or to about 75% of maximum with a helium/neon laser (543 nm line) or mercury lamp (546 nm line).

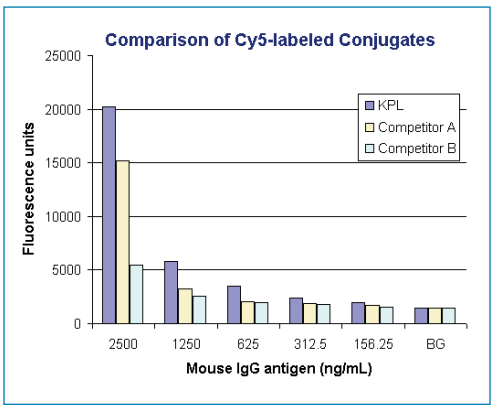
Cy5 is excited maximally at 650 nm and fluoresces maximally at 670 nm. It is excited to about 98% of maximum with a krypton/argon laser (647 nm line) or to about 63% of maximum with a helium/neon laser (633 nm line). Cy5 produces minimal autofluorescence of biological specimens in this region of the spectrum.

A confocal microscope equipped with the appropriate laser for excitation and a far-red detector enable double labeling with Cy3 and Cy5.

Excellent Performance

As demonstrated below KPL Cy3- and Cy5-labeled conjugates produce brighter fluorescence than those of other suppliers.





Microplates were coated with serially diluted mouse IgG at the indicated concentrations. Conjugates at a concentration of 0.01 mg/mL were applied and incubated for 30 minutes. Fluorescence was measured with a Perkin Elmer VICTOR 3 Multilabel Plate Reader.

Ordering Information

Description	Cy3	Cy5
Anti-Mouse IgG (γ), HSA	072-01-18-02	072-02-18-02
F(ab')$_2$ Anti-Mouse IgG (γ), HSA	202-01-18-02	202-02-18-02
Anti-Mouse IgG (H+L), HSA	072-01-18-06	072-02-18-06
F(ab')$_2$ Anti-Mouse IgG (H+L), HSA	202-01-18-06	202-02-18-06
Anti-Mouse IgG (H+L), RbSA, HSA	072-01-18-18	072-02-18-18
Anti-Mouse IgM (μ), HSA	072-01-18-03	072-02-18-03
Anti-Mouse IgG+IgM (H+L), HSA	072-01-18-09	072-02-18-09
Anti-Rabbit IgG (H+L)	072-01-15-06	072-02-15-06
F(ab')$_2$ Anti-Rabbit IgG (H+L), HSA	202-01-15-16	202-02-15-16
Anti-Rabbit IgG (H+L), HSA	072-01-15-16	072-02-15-16
Anti-Rat IgG (H+L)	072-01-16-06	072-02-16-06
F(ab')$_2$ Anti-Human IgG (H+L)	202-01-10-06	202-02-10-06
Anti-Human IgG (γ)	072-01-10-02	072-02-10-02
F(ab')$_2$ Anti-Human IgG (γ)	202-01-10-02	202-02-10-02
Anti-Human IgM (μ)	072-01-10-03	072-02-10-03
F(ab')$_2$ Anti-Human IgM (μ)	202-01-10-03	202-02-10-03
Anti-Guinea Pig IgG (H+L)	072-01-17-06	072-02-17-06
Anti-Chicken IgG (H+L)	072-01-24-06	072-02-24-06
Anti-Horse IgG (H+L)	072-01-21-06	072-02-21-06
Anti-Swine IgG (H+L)	072-01-14-06	072-02-14-06
Anti-Dog IgG (H+L)	072-01-19-06	072-02-19-06
Anti-Sheep IgG (H+L)	072-01-23-06	072-02-23-06
Anti-Goat IgG (H+L)	072-01-13-06	072-02-13-06
Streptavidin	072-01-30-00	072-02-30-00

HSA=human serum adsorbed RbSA=rabbit serum adsorbed
Cy Dye antibody conjugates are made in goat except anti-goat and anti-sheep antibodies made in rabbit. Supplied in 1 mg lyophilized form.

To order or for more information on KPL's line of unlabeled and conjugated affinity purified antibodies, contact us at 800.638.3167 / 301.948.7755, fax 301.948.0169 or visit us at www.kpl.com.

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