



VectaFluor™ Duet Double Labeling Kit

DyLight® 488 Anti-Rabbit IgG (Green)

DyLight® 594 Anti-Mouse IgG (Red)

Cat. No. DK-8818

Introduction

VectaFluor™ Duet Kit offers maximum convenience to achieve double label immunofluorescence staining. This kit can detect mouse and rabbit primary antibodies with green and red DyLight® fluorescent dyes **in one step**. DyLight® dyes offer several advantages such as brighter fluorescence, greater photostability, and pH independence. Our affinity purified, extensively cross-adsorbed secondary antibodies are conjugated to DyLight® dyes in a manner that ensures maximum degree of labeling without compromising antibody affinity or specificity. VectaFluor™ Duet is compatible with fluorescence staining of cells and tissues.

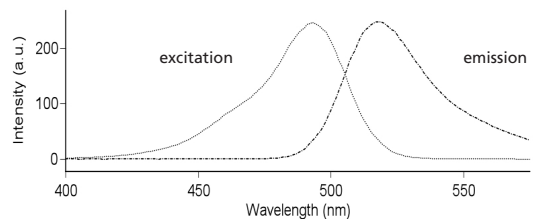
VectaFluor™ Duet Kit contains 15 ml pre-diluted, stabilized, RTU Duet Detection Reagent along with 15 ml RTU 2.5% normal horse serum for blocking.

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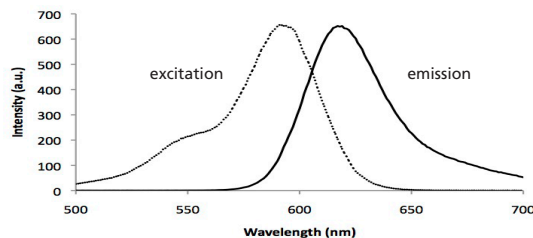
E-mail: vector@vectorlabs.com • www.vectorlabs.com

DyLight® 488 conjugate Spectral Properties



Excitation maximum is at 493 nm. Emission maximum is at 518 nm.

DyLight® 594 conjugate Spectral Properties



Excitation maximum is at 592 nm. Emission maximum is at 617 nm.

COMPONENTS

Reagents supplied:

- 15 ml 2.5% Normal Horse Serum (ready-to-use) for blocking
- 15 ml VectaFluor™ Duet Reagent [DyLight® 488 Anti-Rabbit IgG and DyLight® 594 Anti-Mouse IgG cocktail (rabbit-green, mouse-red)] made in horse, ready-to-use in 5% NHS.

The VectaFluor™ Duet Kit will stain approximately 150 sections based on 100 µl per section.

VectaFluor™ Duet Kit reagents are designed for laboratory use only.

Storage:

Store the VectaFluor™ Duet Kit reagents at 2-8 °C (do not freeze).

Reagents not supplied:

- Buffer
- Primary Antibody
- Primary Antibody Diluent

VectaFluor™ Duet Antibody Reagent

VectaFluor™ Duet Reagents are ready-to-use. No mixing or titrating of the VectaFluor™ Duet Reagent is necessary to obtain optimal staining. Dilution of this reagent or changes in the suggested incubation time may affect performance. The reagents are supplied in convenient dropper bottles. (To remove the drop dispenser tip, press the tip laterally with thumb until it snaps off).

The staining procedure should be performed at room temperature (20-25°C). The VectaFluor™ Duet Kit reagents should be equilibrated to room temperature for optimal performance. Slides should be placed in a humidified chamber during the incubation period.

A number of different buffers can be used with the VectaFluor™ Duet Kit. One of the most common is 10 mM sodium phosphate, pH 7.5, 0.9% sodium chloride (PBS). 0.1% Tween 20 detergent may be added to the wash buffer and is especially recommended for use with automated stainers.

STAINING PROCEDURE

1. For paraffin sections, deparaffinize and hydrate tissue sections through xylenes or other clearing agents and graded alcohol series.

For frozen sections or cell preparations fix with acetone or an appropriate fixative for the antigen under study, if required.
2. If antigen unmasking is required, perform this procedure using a Vector® Antigen Unmasking Solution, Citrate-based, pH 6.0 (H-3300) or Tris-based, pH 9.0 (H-3301).
3. Wash in buffer for 5 minutes.
4. Incubate for 20 minutes with 2.5% Normal Horse Serum (or blocking solution of choice). Tip off.
5. Incubate with mouse primary antibody diluted in an appropriate diluent. (See Note 1, 2).
6. Wash in buffer for 5 minutes.
7. Incubate with rabbit primary diluted in an appropriate diluent. (See Note 1, 2)

