

# KPL DyLight™ 680 - Labeled Antibody To Rabbit IgG (H+L)

Produced in Goat

## Catalog No.

5230-0402 (072-06-15-06)

5230-0343 (042-06-15-06)

## Size

1.0 mg

0.1 mg

## DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with purified rabbit IgG was labeled with DyLight 680 using a proprietary method. DyLight conjugates provide increased brightness and greater photostability than other fluorophores (ex. – FITC). This conjugate is designed for use in immunofluorescence assays, including flow cytometry, immunohistology, Western blotting, microarrays and FLISA.

## FORM/STORAGE

Lyophilized. Store at 2-8°C until rehydrated. Stable for a minimum of 1 year when stored at 2-8°C.

## STABILIZER AND PRESERVATIVE

IgG free bovine serum albumin (BSA) is added as a protein stabilizer. Non-sterile.

## ANTIBODY CONCENTRATION

The quantity of affinity purified antibody is 1.0 mg or 0.1 mg as determined by UV absorbance at 280 nm. Upon rehydration with water, the solution will contain 1% BSA, 100 mM phosphate, 150 mM sodium chloride, 0.02% sodium azide, pH 7.4. The conjugate will be at a concentration of 1.0 mg/mL.

## F/P RATIO

Molar fluorophore/antibody protein ratio is from 1:1 – 3:1.

## EXCITATION/EMISSION VALUES

DyLight 680 is excited at 682 nm (in PBS) and emits at 715 nm (in PBS).

## SPECIFICITY/CROSS REACTIVITY

Tested by gel diffusion and ELISA techniques as applicable. This product reacts specifically with rabbit IgG and may recognize other immunoglobulin types that have light chains in common with IgG. Reactivity to IgG subclasses has not been tested. Antibodies to rabbit IgG may cross-react with immunoglobulins of other mammalian species if common binding sites are shared.

## REHYDRATION AND STORAGE

**Note:** Rehydration of antibodies in buffers other than those listed here is not recommended.

**Rehydration:** Rehydrate with 1 mL of reagent quality water for the 1.0 mg size, or 0.1 mL for the 0.1 mg size. Rotate the vial until the lyophilized pellet is totally dissolved.

**Use:** Prior to use, dilute to desired concentration with PBS or KPL 1% BSA Diluent/Blocking Solution. The diluted conjugate should be used immediately.

**Storage:** The rehydrated product is stable for a minimum of 1 year at 2-8°C.

## SUGGESTED WORKING DILUTIONS

Optimal working concentrations should be determined experimentally. Prepare working dilution in PBS or other buffer such as KPL BSA Diluent/Blocking Solution (See RELATED PRODUCTS). Dilution is not recommended for long-term storage. Suggested dilutions are listed below. In many cases, the antibody may be diluted further than indicated:

### Microwell:

1:100 – 1:250                      10 µg/mL – 4 µg/mL

### Blotting:

1:7500 – 1:15,000                0.13 µg/mL – 66.6 ng/mL

### Histo/Cytochemical/Flow Cytometry:

1:100 – 1:1000                    10 µg/mL – 1 µg/mL

## PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by The Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Dispose of via institutional guidelines.

## TRADEMARKS

DyLight™ is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.

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<b>RELATED PRODUCTS</b>	<b>CAT. NO.</b>
KPL 10% BSA Diluent/Blocking Solution	5140-0006 (50-61-00)
KPL Coating Solution	5150-0014 (50-84-00)
KPL Fluorescent Mounting Medium	5570-0005 (71-00-16)
KPL 20X Wash Solution	5150-0008 (50-63-00)
KPL 10X PBS	5460-0022 (51-13-01)
KPL 10X PBST	5460-0026 (51-14-01)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.