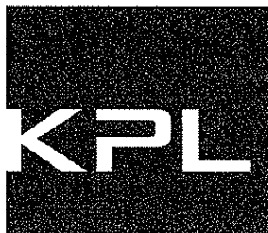


DyLight™ 488 - Labeled Streptavidin

<u>Catalog No.</u>	<u>Size</u>
072-03-30-00	1.0 mg
042-03-30-00	0.1mg



DESCRIPTION

Streptavidin is a 60,000 Dalton protein isolated from the bacterium *Streptomyces avidinii*. The use of streptavidin, rather than egg white avidin, as the bridging reagent ensures that these products demonstrate high sensitivity and specificity, and low background. Streptavidin has been shown to bind four molecules of biotin with high affinity ($K_a = 10^{15}M^{-1}$). Electrophoretically pure streptavidin was labeled with DyLight™ 488 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

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

PROTEIN CONCENTRATION

The quantity of the streptavidin conjugate 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/protein ratio is from 1.5:1 – 4.5:1.

EXCITATION/EMISSION VALUES

DyLight 488 is excited at 493 nm (in PBS) and emits at 518 nm (in PBS).

REHYDRATION AND STORAGE

Note: Rehydration 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 with 0.1 mL of reagent quality water for the 0.1 mg size. Rotate the vial until the lyophilized pellet is totally dissolved.

Use: Prior to use, dilute to the desired concentration with PBS or 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 dilutions in PBS or other buffer such as 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.

RELATED PRODUCTS

BSA Diluent/Blocking Solution	Cat. No. 50-61-00
	Cat. No. 50-61-10
Coating Solution	Cat. No. 50-84-00
Wash Solution	Cat. No. 50-63-00
	Cat. No. 50-63-04
Fluorescent Mounting Medium	Cat. No. 71-00-06
10X PBS	Cat. No. 51-13-01
	Cat. No. 51-13-02

See the KPL catalog for a wide selection of antibodies, substrates, protein and nucleic acid detection kits, and immunohistochemistry reagents.

DyLight™ 488 - Labeled Streptavidin

<u>Catalog No.</u>	<u>Size</u>
072-03-30-00	1.0 mg
042-03-30-00	0.1 mg

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Nothing disclosed herein is to be construed as a recommendation to use this product in violation of any patents. The information presented above is believed to be accurate. However, said information and product are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. We cannot be responsible for patent infringements or other violations that may occur with the use of this product. No claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims regarding product performance must be made within 30 days following date of delivery.

Limited Use License

The purchase of this product conveys to the buyer the non-transferable right to use the product in research conducted by the buyer. The buyer cannot sell or otherwise transfer this product or materials made by use of this product to a third party or otherwise use this product or materials made with this product for Commercial Purposes without written approval of KPL, Inc. For additional information, please visit www.kpl.com or the KPL catalog. To obtain a license or approval to use this product for purposes other than those permitted above, contact Director of Sales at (301) 948-7755.