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Product Data Sheet

Goat F(ab')₂ Anti Rabbit IgG (H&L)-Allophycocyanin (Cross-Linked) Adsorbed Against Human Serum Proteins

Prod. No.: R103
Lot No.: 142L210
Conc.: 1.0 mg/ml
Pkg. Size: 0.5 mg

Description

Goat antibodies to Rabbit IgG heavy and light chains are digested into F(ab')₂ fragments using pepsin and then adsorbed against human serum proteins to minimize cross reactivity to human proteins. Antibodies are then affinity isolated using rabbit IgG coupled to agarose beads. All Fc fragments and whole IgG molecules are removed. The affinity isolated antibody is then conjugated to Allophycocyanin at a one to one molar ratio. Unconjugated dye and antibody are removed chromatographically to assure high biological activity.

Allophycocyanin is a fluorescent protein isolated from green algae with a molecular weight of approximately 104,000. The absorbance maximum of allophycocyanin is 650nm with an emission maximum at 660nm. With a molar extinction coefficient of approximately 733,000 cm⁻¹M⁻¹ and a quantum yield of 0.68, like phycoerythrin, allophycocyanin is one of the brightest fluorochromes available.

Antigen

Purified rabbit IgG

Appearance

Goat F(ab')₂ Anti Rabbit IgG (H&L) - Allophycocyanin is supplied in .01 M phosphate buffered saline (PBS) pH 7.4, containing 2mM EDTA, 1.0% BSA and 0.1% sodium azide as a preservative. This conjugate is supplied at 1.0 mg conjugate protein per ml.

Application

This secondary reagent has been optimally manufactured to detect primary rabbit antibodies. Leinco Technologies uses F(ab')₂ fragments to eliminate Fc receptor binding during use in immunohistochemistry and flow cytometry. Leinco Technologies suggests using 1 microgram to stain 1 X 10⁶ cells in flow cytometry. However, we suggest that each investigator determine their own optimal titer for other specific applications. High concentrations of glycerol such as contained in some mounting mediums will quench the fluorescent intensity of Allophycocyanin and other phycobilliproteins.

(Over)

For Research Use Only. Not for use in diagnostic procedures.

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Storage and Stability

Stable when stored at 2 - 8°C. Do Not Freeze.

References

1. "Fluorescent Phycobilliprotein Conjugates for Analyses of Cells Molecules." V.T. Oi, A.N. Glazer, L. Stryer. *J. Cell Biol.* 93,981 (1982).
2. "The use of phycobilliproteins as Fluorescent Labels in immunoassays." M.N. Kronick. *J. Immunol. Meth.* 92, 1 (1986).

Phycobilliproteins are protected under the following patents: (U.S. patents No. 4,520, 110 and 4,542, 104, European patent no. 76695, Canadian patent No. 1,179,942 and Australian patent No. 548,440).