R-101

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Product Data Sheet

Goat F(ab')$_2$ Anti Rabbit IgG (H&L)-R-Phycoerythrin Adsorbed Against Human Serum Proteins

Prod. No.: R101
Lot No.: 102L290
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 R-phycoerythrin at a one to one molar ratio. Unconjugated dye and antibody are removed chromatographically to assure high biological activity.

R-phycoerythrin is a fluorescent protein isolated from red algae with a molecular weight of approximately 240,000. The absorbance maximum of R-phycoerythrin is 565nm with an emission maximum at 578nm.

Antigen
Purified rabbit IgG

Appearance
Goat F(ab')$_2$ Anti Rabbit IgG (H&L) - R-phycoerythrin 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 10^6 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 R-phycoerythrin 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 phycobilliprotein as Fluorescent Labels in immunoassays." M.N. Kronick.J. immunol. Meth. 92, 1 (1986).