

Product Information

Anti-Rabbit IgG, Native antibody, Mouse monoclonal
clone RabT-50, purified from hybridoma cell culture

Product Number **R2655**

Product Description

Anti-Rabbit IgG, Native antibody, Mouse monoclonal (mouse IgG1 isotype) is derived from the hybridoma RabT-50 produced by the fusion of mouse myeloma cells (NS1) and splenocytes from BALB/c mice immunized with an enriched fraction of rabbit IgG light chain. The isotype is determined using a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2.

Anti-Rabbit IgG, Native antibody, Mouse monoclonal reacts specifically with non-reduced rabbit IgG and does not react with reduced rabbit IgG. It does not recognize human, monkey, bovine, horse, pig, goat, cat, rat, and chicken IgGs. Applications include ELISA, immunoblotting and immunocytochemistry.

Rabbit antibodies of various specificities are widely used as primary antibodies in many research techniques. One of the highly used techniques is immunoprecipitation. When the immunoprecipitated protein mixture is separated by SDS-PAGE and blotted with a rabbit primary antibody, the secondary anti-rabbit antibody used for protein detection also recognizes the immunoglobulin heavy (50 kDa) and light (25 kDa) chains of the rabbit immunoprecipitating antibody. Since many proteins appear in the molecular weight range of the immunoglobulin heavy and light chains, this can mask the protein of interest. Using a secondary antibody that does not recognize reduced immunoglobulins eliminates this problem and the protein can be easily detected.

The fact that the product does not cross react with immunoglobulins of other species also makes it a very good candidate for using as a secondary antibody in many immunoassays which require specimens from various species which this monoclonal antibody does not recognize. This reduces the background staining, often associated with polyclonal secondary antibodies.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 1-2 µg/mL is recommended for the detection of 10 ng of non-reduced rabbit IgG, Product Number I5006, per lane.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

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