Product Information

Anti-Rabbit IgG, Native–Peroxidase antibody, Mouse monoclonal

clone RabT-50, purified from hybridoma cell culture

R3155

Product Description

Monoclonal Anti-Rabbit IgG, Native–Peroxidase is a purified immunoglobulin fraction of monoclonal Anti- Rabbit IgG, Native (mouse IgG1 isotype) isolated from hybridoma cell culture of the RabT-50 hybridoma, conjugated to horseradish peroxidase (HRP). The antibody 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.

Monoclonal Anti-Rabbit IgG, Native–Peroxidase 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 IgG's. 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, makes it also 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, and 0.05% MIT as preservative.

HRP concentration: 1-2 mg/mL

Conjugate concentration: 3.5–7.0 mg/mL

Antibody Concentration: 2.5-5.0 mg/mL

Molar ratio: Ab/E: 0.7-1.4

Enzyme activity: at least 200-500 U/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the 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 discard if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody dilution of 1:10,000-1:20,000 is recommended:

- for the detection of actin in 3T3 cell extracts using Anti-Actin (20-33), Catalog Number A5060, as the primary antibody.
- for the detection of actin in Hela cell extracts using Anti Actin, N-terminal, Catalog Number A2103, as the primary antibody.

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

Notice

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