

Product Information

Anti-Mouse IgG (Fc specific)

produced in goat, affinity isolated antibody
adsorbed with human IgG and rat serum proteins

Catalog Number **M3534**

Product Description

Antiserum is produced in goat using purified mouse IgG, Fc fragment, as the immunogen. Antibody is isolated from goat anti-mouse IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to the Fc fragment of mouse IgG. The antibody preparation is solid phase adsorbed with human IgG and rat serum proteins to ensure minimal cross reactivity in tissue or cell preparations.

Specificity is determined by ELISA, immunoelectrophoresis (IEP) and Ouchterlony double diffusion (ODD). By IEP, single precipitation arcs are observed versus normal mouse serum, mouse IgG and the Fc fragment of mouse IgG. No reaction is observed versus the Fab fragment of mouse IgG. In an ELISA, the product reacts with mouse IgG and shows no reactivity with human IgG, IgA, IgM or rat IgG. In the ODD, no cross reaction was detectable versus normal human or rat serum.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the antibody preparation followed by diffusion versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation.

This reagent is useful as a starting material for conjugates and is applicable with mouse primary antibodies of the IgG isotype.

Reagent

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

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet USDA requirements

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 continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen 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.

Product Profile

Protein Concentration: 2.0-2.5 mg/ml by absorbance at 280 nm ($E_{280}^{1\%} = 14.0$).

Indirect ELISA: a working dilution of 1:15,000 is determined using 5 µg/ml mouse IgG for coating.

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

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