

Product Information

Anti-Mouse IgG (Fc Specific) F(ab')₂ fragment

produced in goat, affinity isolated antibody
adsorbed with bovine, horse, and human serum
proteins

Catalog Number **M0284**

Product Description

Anti-Mouse IgG (Fc Specific) is produced in goat using purified mouse IgG Fc fragment as the immunogen. The F(ab')₂ fragment of the antibody is obtained from pepsin digested antiserum by immunospecific methods of purification. Affinity isolation 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 serum proteins to ensure minimal cross reactivity in tissue or cell preparations. Solid phase adsorption with bovine and horse serum proteins ensures minimal cross reactivity with horse or fetal calf serum in hybridoma media.

This product is determined to be monospecific by immunoelectrophoresis using normal mouse serum, mouse IgG (whole molecule) and the Fc fragment of mouse IgG. No cross reactivity is observed with the Fab fragment of mouse IgG. Adsorption with human, bovine, and horse serum proteins is tested by ELISA. No reactivity is observed with human λ or κ light chain, IgG, IgA, IgM, IgD, and IgE, bovine IgG and IgM, or horse IgG.

Identity and purity of the antibody is established by immunoelectrophoresis. Electrophoresis of the antibody preparation followed by diffusion against anti-goat IgG and anti-goat whole serum results in single arcs of precipitation. The antibody preparation is found to consist only of the F(ab')₂ fragment of goat IgG by immunoelectrophoresis, where specific antisera is applied to goat IgG fragments. No contamination with goat IgG whole molecule is observed.

The reagent is a specific antigen-binding fragment devoid of effector functions and is therefore useful as a starting material for conjugates and also applicable with primary monoclonal mouse antibodies of the IgG isotype.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% sodium azide.

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, freeze 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 mg F(ab')₂ fragment of antibody per ml.

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