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Product Information

Anti-Mouse IgG (Fc specific) F(ab′)$_2$ fragment-FITC
produced in goat, affinity isolated antibody
adsorbed with bovine, horse and human serum proteins

Catalog Number **F8646**

Product Description

Anti-Mouse IgG is produced in goat using purified mouse IgG 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. Purified antibody is conjugated to fluorescein isothiocyanate (FITC) in an alkaline reaction and then purified to remove unbound FITC.

The antiserum 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 Ouchterlony Double Diffusion, prior to conjugation. No reactivity is observed with human, horse or bovine serum proteins.

Identity and purity of the antibody is established by immunoelectrophoresis. Electrophoresis of the antibody preparation followed by diffusion versus 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 product may be used as a reagent in immunohistologic or immunocytologic reactions offering sensitive and specific activity to mouse immunoglobulin G without cross reactivity with human, horse or bovine immunoglobulins often present on membrane or cell surfaces.

Reagent

The conjugate is 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

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

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.

Note: Store product protected from light.

Product Profile

Protein concentration: ≥ 2.0 mg/ml (Biuret)

F/P Molar Ratio: 2.5 - 6.5

Immunohistochemistry: a minimum working dilution of 1:320 was determined using formalin-fixed, paraffin-embedded sections of human tonsil.

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