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Product Information

Anti-Mouse IgG (Fc Specific)

Antibody developed in Goat

F(ab')₂ Fragment of Affinity Isolated Antigen

Specific Antibody

Adsorbed with Bovine, Horse, and Human Serum proteins

Product Number **M 0284**

Product Description

Anti-Mouse IgG (Fc Specific) is developed 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.

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.

Reagents

The product is provided in 0.01 M phosphate buffered saline, pH 7.4, with 7.5 mM sodium azide as a preservative.

Precautions and Disclaimer

Due to the sodium azide content a material safety sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazardous 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 is not recommended. 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- 2.2 mg F(ab')₂ fragment of antibody per ml.

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