



3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone 800-325-5832 • (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sial.com  
sigma-aldrich.com

## Product Information

### ANTI-MOUSE IgG (Fc SPECIFIC) FITC CONJUGATE F(ab')<sub>2</sub> Fragment of Affinity Isolated Antibody Adsorbed with Bovine, Horse and Human Serum Proteins

Product No. **F 8646**

#### Product Description

Anti-Mouse IgG is developed in goat using purified mouse IgG as the immunogen. The F(ab')<sub>2</sub> 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')<sub>2</sub> 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.

#### Precautions

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

#### 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.

#### Product Profile

Protein Concentration: At least 2.0 mg/ml by Biuret.

F/P Molar Ratio: 2.5 to 6.5

A dilution of at least 1:160 was determined by indirect immunofluorescent labeling of formalin-fixed, paraffin-embedded sections of human tonsil, using Mouse Monoclonal Anti-Human IgG (Product No. I 5885) as the primary antibody.

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

#### 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 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.

PCS11/01

Sigma brand products are sold through Sigma-Aldrich, Inc.  
Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.  
Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.  
Please see reverse side of the invoice or packing slip.