



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** **Flow Cytometry Grade**

Product No. **F 2772**

#### **Product Description**

Anti-mouse IgG (Fc specific) is developed in goat using purified Fc fragments of 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 that do not specifically bind to the mouse IgG. The antibody preparation is solid phase adsorbed with bovine, horse and human serum proteins. This ensures minimal cross reactivity with cells or tissues from these species as well as with horse or fetal calf serum in hybridoma media. Goat anti-mouse IgG is then conjugated to Fluorescein Isothiocyanate (FITC), Isomer I. Following conjugation, the conjugate is further purified to remove free FITC.

The F(ab')<sub>2</sub> antibodies isolated from goat antiserum by affinity chromatography, react specifically with mouse Fc. No cross reaction is observed with mouse Fab fragment. The antibodies are adsorbed to assure minimal cross reaction with human, horse and bovine proteins on tissue or cell preparations.

The 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. Diffusion of the product versus Anti-Goat F(ab')<sub>2</sub> results in a positive reaction whereas diffusion versus Anti-Goat Fc results in no reaction.

The product may be used as a reagent in flow cytometry, immunohistology and immunocytology offering sensitive and specific activity to mouse IgG and no cross reactivity with human, horse or bovine immunoglobulins.

#### **Reagents**

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA and 15 mM sodium azide as a preservative.

#### **Precautions**

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.

#### **Product Profile**

The protein concentration is 1.5-3.5 mg/ml of which at least 95% is specific antibody.  
F/P Molar Ratio: 1.5-3.5

**Flow Cytometry:** A minimum dilution of 1:100 is determined by flow cytometric analysis of 100 µl of human peripheral blood lymphocytes by indirect labeling.

**Immunohistology:** A minimum dilution of 1:160 is determined by indirect immunofluorescence on formalin-fixed, and paraffin-embedded human tonsil using mouse monoclonal anti-human IgG as the primary antibody.

#### **Storage**

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. Working dilution should be discarded if unused within 12 hours.

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