



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sia1.com
sigma-aldrich.com

Product Information

**Anti-Mouse IgG (Fab Specific) FITC Conjugate
F(ab')₂ Fragment of Affinity Isolated Antibody
Adsorbed with Bovine, Horse and Human Serum
Proteins
Flow Cytometry Grade**

Product Number **F 2653**

Product Description

Anti-Mouse IgG is developed in goat using purified Fab fragments of mouse IgG as the immunogen. The F(ab') 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 Fab fragment of mouse IgG. The antibody preparation is solid phase adsorbed with bovine, horse and 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. Specific antibody is conjugated to fluorescein isothiocyanate (FITC) in an alkaline reaction and further purified to remove free FITC.

The product is determined to be monospecific by immunoelectrophoresis (IEP) against normal mouse serum, mouse IgG, and the Fab fragment of mouse IgG.

No cross reaction is observed with the Fc fragment of mouse IgG. No reactivity is observed with human, horse, or bovine serum by immunoelectrophoresis.

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') fragment of goat IgG by immunoelectrophoresis, where specific antisera is applied to goat IgG fragments.

Reagents

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

Precautions and Disclaimer

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.

Storage/Stability

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.

Product Profile

In an agar diffusion assay the conjugate produces a precipitation arc at a dilution of at least 1:8 against a diluted normal mouse serum.

The conjugate was evaluated by indirect labeling of human peripheral blood lymphocytes in a flow cytometer using 10 µl of a 1:100 dilution of conjugate per 1×10^6 cells.

A minimum dilution of 1:160 was determined by indirect immunofluorescence on formalin-fixed, paraffin-embedded human tonsil sections, using Mouse Monoclonal Anti-Human IgG (Product No. I 5885) at 1:50 as the primary antibody.

The product may be used as a reagent in immunohistologic or immunocytologic reactions offering sensitive and specific activity to all mouse immunoglobulins without cross reactivity with human, horse, or bovine immunoglobulins often present on membrane or cell surfaces.

F/P Molar Ratio: 1.5 to 3.5

JMW/VLE 7/02

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.