

Product Information

Anti-Mouse IgG (whole molecule)-FITC produced in rabbit, IgG fraction of antiserum

Catalog Number **F9137**

Product Description

Anti-Mouse IgG is produced in rabbit using IgG from pooled normal mouse serum as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins. Anti-Mouse IgG is conjugated to fluorescein isothiocyanate (FITC) in an alkaline reaction and then further purified to remove free FITC.

Specificity for mouse IgG is determined by immunoelectrophoresis (IEP) prior to conjugation using normal mouse serum and mouse IgG. Product reacts with mouse IgA and IgM.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

Reagents

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

Precautions and Disclaimer

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/Stability

Store at 2-8 °C for a maximum of 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

Immunofluorescence: a minimum working dilution of 1:100 was determined using human peripheral blood lymphocytes and Monoclonal Anti-Human β 2 Microglobulin, Catalog Number M7398.

Immunohistochemistry: a minimum working dilution of 1:100 was determined using formalin-fixed, paraffin-embedded human tonsil sections.

Note: In order to obtain best results, it is recommended that each individual user determine their optimum working dilutions for their system by titration assay.

F/P Molar Ratio: 2.5 to 6.5

The F/P molar ratio is determined spectrophotometrically as follows:

$$\frac{F}{P} = \frac{A_{495} \times 1.4 \times 0.41}{0.2 \times [A_{280} - (0.36 \times A_{495})]}$$

Where:

- 0.2 = The extinction coefficient of bound FITC at a concentration of 1 μ g per ml at pH 7.2
- 0.36 = The fluorochrome absorbance correction factor (non-protein absorbance).
- 0.41 = The factor for conversion of fluorochrome to protein ratios from weight to molar ratios.

NRC,KAA,PHC 09/08-1

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.