

## Product Information

### ANTI-MOUSE IgG (WHOLE MOLECULE) FITC CONJUGATE

Antibody developed in Rabbit  
IgG Fraction of Antiserum

Product Number **F9137**

#### Product Description

Anti-Mouse IgG is developed 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. Rabbit anti-mouse IgG is conjugated to crystalline 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

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

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 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

1. A minimum working dilution of 1:50 was determined by indirect immunofluorescent labeling of human peripheral blood lymphocytes using Mouse Monoclonal Anti-Human  $\beta$ 2 Microglobulin (Product No. M7398).
2. A minimum working dilution of 1:100 was determined by indirect immunofluorescent labeling of formalin-fixed, paraffin-embedded human tonsil sections using Mouse Monoclonal Anti-Human IgG (Product No. I5885) as the primary antibody.

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:

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

$$A_{280} - (0.36 \times A_{495}) \times 0.2$$

Where:

- 0.2 = The extinction coefficient of bound FITC at a concentration of 1  $\mu$ 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

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