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Product Information

**ANTI-MOUSE IgG (Fc SPECIFIC)
FITC CONJUGATE**
Antibody developed in Goat
Affinity Isolated Antigen Specific Antibody
Adsorbed with Human IgG

Product Number **F5387**

Product Description

Anti-Mouse IgG (Fc Specific) is developed in goat using purified mouse IgG Fc fragment as the immunogen. Antibody is isolated from goat anti-mouse IgG anti serum by immunospecific purification which 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 IgG to ensure minimal cross reactivity in tissue or cell preparations. Goat anti-Mouse IgG is conjugated to FITC and then purified by gel filtration to remove free FITC.

Specificity for the Fc fragment of mouse IgG is determined by immunoelectrophoresis (IEP). The antibody detects all mouse IgG subclasses, it shows no reactivity with mouse IgG Fab fragment or human IgG. Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against anti-goat IgG and anti-goat whole serum result in single arcs of precipitation.

Reagents

The conjugate is provided as a solution in 0.01 M sodium 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 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.

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

Product Profile

1. A minimum dilution of 1:32 is determined by an indirect assay using monoclonal antibodies to human β_2 -microglobulin (Product No. M7398) incubated with human peripheral blood lymphocytes.
2. A minimum dilution of 1:100 is determined by indirect immunofluorescence on formalin-fixed, paraffin-embedded human tonsils using Mouse Monoclonal Anti-Human IgG (Product No. I5885) as the primary antibody.

Working dilutions should be determined by titration assay. Due to differences in assay systems, these titers may not reflect the user's actual working dilution.

F/P Molar Ratio: 2.5-6.5

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

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

Where:

- 0.2 = The extinction coefficient of bound FITC at a concentration of 1 μ g/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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