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Product Information

ANTI-MOUSE IgG (WHOLE MOLECULE)

FITC CONJUGATE

Antibody developed in Sheep

F(ab')₂ Fragment of Affinity Isolated Antigen Specific Antibody

Antibody Adsorbed with Rat Serum Proteins

Product No. **F 2266**

Product Description

The F(ab')₂ fragment of sheep anti-mouse IgG is isolated from a pepsin digest of antiserum using immunospecific methods of purification to remove essentially all sheep serum proteins, including immunoglobulins, that do not specifically bind to mouse IgG. To minimize cross reactivity with rat proteins, the antibody preparation is solid phase adsorbed with rat serum proteins prior to conjugation. The antibody preparation is then conjugated to Sigma Fluorescein Isothiocyanate (FITC), Isomer I (Product No. F 7250). Following conjugation, the FITC-antibody conjugate is extensively dialyzed to remove unbound FITC.

Specificity of the anti-mouse IgG antibodies for mouse IgG is determined by immunoelectrophoresis (IEP) and Ouchterlony double diffusion (ODD) with normal mouse and rat sera, prior to conjugation. The isolated anti-mouse IgG antibodies react with mouse IgG subclasses G1, G2a, G2b, and G3 as demonstrated by Ouchterlony double diffusion using mouse myeloma proteins. No reaction is observed with rat serum proteins.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the antibody preparation followed by diffusion versus anti-sheep IgG and anti-sheep whole serum results in single arcs of precipitation.

Reagents

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

Precautions and Disclaimer

Due to 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.

Product Profile

The product is provided with an anti-mouse IgG specific antibody fragment content of at least 1.0 mg/ml.

A minimum working dilution of 1:128 is determined by direct immunofluorescent labeling of mouse spleen cells.

In order to obtain best results, it is recommended that each individual user determine their optimum working dilution by titration assay.

F/P Molar Ratio: between 3.0 and 5.0

The F/P molar ratio of the FITC-antibody conjugate is determined spectrophotometrically as follows:

$$F = A_{496}/0.15 \quad P = \frac{A_{280} - (A_{496} \times 0.32)}{1.4}$$

$$\text{F/P Molar Ratio} = F/P \times 0.41$$

Where:

0.15 = the extension coefficient of bound FITC at a concentration of 1 µg/ml at pH 7.2.

0.32 = fluorochrome absorbance correction factor (non-protein absorbance).

0.41 = the factor for conversion of fluorochrome to protein ratios from weight to molar ratios.

Storage

For continuous use, store at 2-8 °C for up to one month.
For extended storage, 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 by centrifugation before use.

PCS 9/99

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