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ProductInformation

Anti-Mouse IgG (whole molecule) F(ab')₂ fragment - FITC

Antibody Produced in Sheep, Affinity Isolated Antibody
Antibody Adsorbed with Human Serum Proteins

Product No. **F 2883**

Product Description

The F(ab')₂ fragment of sheep anti-mouse IgG is isolated from a pepsin digest of antiserum using immuno-specific 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 human proteins, the antibody preparation is solid phase adsorbed with human serum proteins prior to conjugation. The antibody preparation is then conjugated to 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 human 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.

Reagent

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.

Storage/Stability

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.

Product Profile

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

The minimum working dilution of 1:128 was determined by direct immunofluorescence using mouse spleen cells. In order to obtain best results, it is recommended that each user determine the optimal working dilution for individual applications by titration assay.

F/P Molar Ratio: 3.0 - 6.0

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

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

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

Where:

- 0.15 = the extinction 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

KAA 05/05

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