

Product Information

ANTI-MONKEY IgG (WHOLE MOLECULE) FITC CONJUGATE

Antibody developed in Rabbit
Affinity Isolated Antigen Specific Antibody

Product No. **F 3893**

Product Description

Anti-Monkey IgG (whole molecule) is developed in rabbit using purified monkey IgG (rhesus) as the immunogen. Antibody is isolated from rabbit anti-monkey IgG antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to monkey IgG. Rabbit anti-Monkey IgG is conjugated to Fluorescein Isothiocyanate (FITC). Free FITC is removed by gel filtration.

Cross-reactivity of the product is determined by immunoelectrophoresis (IEP) and Ouchterlony Double Diffusion (ODD). The antibody shows cross reactivity with baboon and marmoset IgG's.

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 result in single arcs of precipitation.

Reagents

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, with 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.

Product Profile

A minimum titer of 1:64 was determined by Fluorescent Dot Immunobinding Assay (FDIBA) on a 5 µg dot of monkey IgG bound to nitrocellulose.

Protein Concentration: 2.0 - 5.5 mg/ml by absorbance at 280 nm and 495 nm ($E_{280}^{1\%} = 14.0$, $E_{495}^{1\%} = 15.0$).

F/P Molar Ratio: 3.0 to 8.0

The F/P Molar ratio of FITC-Antibody conjugates 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 µg/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.

In an agar diffusion assay, the conjugate produces a precipitation arc at a minimum dilution of 1:8 versus a dilution of normal monkey serum.

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

Storage

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.

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