

Product Information

Anti-Rat IgG (whole molecule)-FITC

produced in rabbit, affinity isolated antibody

Catalog Number **F1763**

Product Description

Anti-Rat IgG (whole molecule) is produced in rabbit using purified rat IgG as the immunogen. Antibody is isolated from rabbit anti-rat IgG antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to bovine IgG. The antibody preparation is solid phase adsorbed with human IgG to ensure minimal cross reactivity in tissue or cell preparations. Anti-Rat IgG is conjugated to fluorescein isothiocyanate (FITC). Free FITC is removed by gel filtration.

Reagent

Supplied as a solution in M phosphate buffered saline, pH 7.4, with 15 mM sodium azide as a preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet 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, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Note: Store product protected from light.

Product Profile

A minimum dilution of 1:320 was determined by indirect immunofluorescent labeling of formalin-fixed, paraffin-embedded human tonsil sections using rat anti-human IgG as the primary antibody.

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

Protein concentration: ≥ 3 mg/ml by absorbance at 280 nm and 495 nm ($E_{280}^{1\%} = 14.0$).

F/P Molar Ratio: 3-8

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 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.

Specificity of the Anti-Rat IgG antibodies for rat IgG is determined by immunoelectrophoresis (IEP), prior to conjugation, using normal rat serum and rat IgG. No cross reaction with human IgG is observed.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against Anti-Rabbit IgG and Anti-Rabbit whole serum results in single arcs of precipitation.

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