

Product Information

Anti-Rabbit IgG (whole molecule)-FITC produced in goat, affinity isolated antibody

Catalog Number **F9887**

Product Description

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

Specificity of the anti-rabbit IgG antibodies for rabbit IgG is determined by immunoelectrophoresis (IEP), prior to conjugation, using normal rabbit serum and rabbit 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 versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation.

Reagent

Supplied as a solution in 0.01 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

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

F/P Molar Ratio: 3.0-8.0

The F/P Molar ratio of FITC-Antibody conjugates is determined spectrophotometrically as follows:

$$\frac{F}{P} = \frac{A_{495} \times 1.4 \times 0.41}{0.2 \times [A_{280} - (0.36 \times A_{495})]}$$

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.

Agar Block Precipitation Titer (ABPT)

In an agar diffusion assay, the conjugate produces a precipitation arc at a dilution of 1:16 to 1:64 versus diluted normal rabbit serum.

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.

RC,KAA,PHC 11/08-1