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Product Information

Anti-Goat IgG (whole molecule)-FITC
produced in rabbit, affinity isolated antibody

Catalog Number **F7367**

Product Description
Anti-Goat IgG (whole molecule) is produced in rabbit using purified goat IgG as the immunogen. Antibody is isolated from rabbit anti-goat IgG antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to goat IgG. Anti-Goat IgG is conjugated to fluorescein isothiocyanate (FITC). Free FITC is removed by gel filtration.

Specificity of the anti-goat IgG antibodies for goat IgG is determined by immunoelectrophoresis (IEP), prior to conjugation, using normal goat serum and goat IgG.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit 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, with 15 mM sodium azide as a preservative.

Precautions
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
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
Direct immunofluorescence: a minimum working dilution of 1:400 was determined using human peripheral blood lymphocytes.

Immunohistochemistry: a minimum working dilution of 1:400 was determined using formalin-fixed, paraffin-embedded human tonsil sections using goat 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: 2.0-5.5 mg/ml by absorbance at 280 nm and 495 nm ($E^{1\%}_{280}$ = 14.0, $E^{1\%}_{495}$ = 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:

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

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.

NRC,KAA,PHC 09/08-1