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Product Information

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

Catalog Number **F1638**

Product Description

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

Specificity of the antiserum is determined by immunoelectrophoresis, prior to conjugation, versus normal pig serum and pig IgG.

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 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

For continuous use, store at 2-8 °C for a maximum of 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.

Product Profile

Protein Concentration: 3.0-6.5 mg/ml by absorbance at 280 nm and 495 nm ($E^{1\%}_{280}$ = 14.0, $E^{1\%}_{495}$ = 15.0).

Direct immunofluorescence: a minimum titer of 1:32 was determined using pig spleen cells.

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

F/P Molar Ratio: 2.5-6.5

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

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

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.

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