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ProductInformation

Anti-Goat IgG (whole molecule)–FITC Conjugate
Adsorbed with Human Serum Proteins
Affinity Isolated Antibody
Antibody produced in rabbit

Product Number **F 2016**

Product Description

Anti-Goat IgG (whole molecule) is produced in rabbit using purified goat IgG as the immunogen. Affinity isolated antigen specific antibody is obtained 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. The antibody preparation is solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. Rabbit anti-goat IgG affinity isolated antibody is conjugated to Fluorescein Isothiocyanate (FITC), Isomer I (Product No. F 7250). Following conjugation, unbound FITC is removed by extensive dialysis.

Cross-reactivity of the antibody is determined by immunoelectrophoresis (IEP) and Ouchterlony Double Diffusion (ODD), prior to conjugation. The antibody shows no reactivity with human serum proteins.

Identity and purity of the antibody is established by immunoelectrophoresis. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation.

Reagent

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, and 1% bovine serum albumin containing 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.

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 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.

Product Profile

A minimum working antibody dilution of 1:160 was determined by indirect immunofluorescent labeling of mouse splenocytes.

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

The F/P molar ratio is determined spectrophotometrically as follows:

$$F = A_{496}/0.15 \qquad P = \frac{A_{280} - (A_{496} \times 0.32)}{1.4}$$

F/P Molar Ratio = F/P x 0.41

Where:
0.15 = The extinction coefficient of bound FITC at a concentration of 1 µg per ml at pH 7.2
0.32 = 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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