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Product Information

Anti-Human IgG (Fab specific)−FITC antibody produced in goat
affinity isolated antibody, buffered aqueous solution

Product Number **F5512**

Product Description

Anti-Human IgG (Fab specific) is developed in goat using purified human IgG, Fab fragment, as the immunogen. Antibody is isolated from goat anti-human IgG antiserum by immunospecific purification, which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to the Fab fragment of human IgG. Goat anti-human IgG is conjugated to FITC and then purified by gel filtration to remove free FITC.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against anti-goat IgG and anti-goat 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, 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

Specificity for the Fab fragment of human IgG is determined by immunoelectrophoresis (IEP). The conjugate reacts with human serum, human IgG (whole molecule and Fab fragment), IgA, IgM, and light chains and shows no reactivity with human IgG, Fc fragment. By Ouchterlony double diffusion (ODD) the product shows no cross reaction with normal mouse or rat serum proteins.

The F/P molar ratio 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 μg per 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.

Immunofluorescence: a working dilution of 1:16 -1:32 is determined using Hep2 cells.

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

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet USDA requirements.

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