

## Product Information

### ANTI-HUMAN IgG (Fc SPECIFIC)

#### TRITC CONJUGATE

Affinity Isolated Antigen Specific Antibody

Product No. **T4530**

#### Product Description

Anti-Human IgG is developed in goat using purified human IgG Fc fragment as the immunogen. The antibody is isolated from goat anti-human IgG antiserum by immunospecific purification to remove essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to the Fc fragment of human IgG. Goat anti-Human IgG is conjugated to crystalline tetramethylrhodamine isothiocyanate (TRITC) in an alkaline reaction, then further purified to remove unbound TRITC.

Specificity of the TRITC conjugated anti-human IgG is determined by immunoelectrophoresis (IEP) versus normal human serum and human IgG. The conjugate shows no reactivity with human IgG Fab fragment, human IgA, human IgM, and human IgG. Electrophoresis of the antibody preparation followed by diffusion versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation. By Ouchterlony double diffusion (ODD) the product shows no cross-reaction with normal mouse or rat IgG.

#### 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.

#### Product Profile

1. An minimum dilution of 1:16 was determined by indirect immunofluorescent staining techniques on human peripheral blood lymphocytes using monoclonal anti-human  $\beta$ -2 microglobulin, diluted 1:50 (Product No. M7398) as the primary antibody.

2. An minimum working dilution of 1:16 was determined by indirect labeling using an A.N.A. (Anti-Nuclear Antibody) assay on acetone fixed rat liver cells and A.N.A. positive serum as the primary antibody.

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

F/P Molar Ratio: 1.0 to 5.0

The F/P molar ratio of the TRITC-antibody conjugate is determined spectrophotometrically as follows:

$$\text{F/P Molar Ratio} = \frac{A_{555} \times 1.4}{A_{280} - (A_{515} \times 0.56)} \times 6.6$$

Where:

0.56 = fluorochrome absorbance correction factor (non-protein) absorbance

6.60 = factor for conversion of fluorochrome to protein ratios from weight to molar ratios

Protein Concentration is determined by absorbance at 280nm.

#### Storage

For continuous use, store at 2-8 °C for up to one month. For extended storage, 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 by centrifugation before use.

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet U.S.D.A. requirements.

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