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# ProductInformation

**Anti-Rat IgG (Whole Molecule)**
**TRITC Conjugate**
Antibody Developed in Rabbit
Affinity Isolated Antigen Specific Antibody

Product Number **T4280**

## Product Description

Anti-Rat IgG (Whole Molecule) is developed in rabbit using IgG isolated from pooled normal rat serum as the immunogen. Antibody is obtained from rabbit anti-rat antiserum by immunospecific purification to remove essentially all rabbit serum proteins including immunoglobulins which do not bind specifically to rat IgG. Prior to conjugation, the antibody preparation is solid phase adsorbed with human IgG to minimize reactivity with human tissues or cell preparations. The affinity isolated antibody is conjugated to crystalline tetramethylrhodamine isothiocyanate (TRITC) and then further purified to remove free TRITC.

Specificity of the anti-rat IgG is determined prior to conjugation against normal rat serum and rat IgG by immunoelectrophoresis (IEP). The antibody preparation is non-reactive with human IgG by immunoelectrophoresis

Identity and purity of the antibody is established by immunoelectrophoresis. Electrophoresis of the antibody preparation followed by diffusion against 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, containing 15 mM sodium azide as 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, 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.

## Product Profile

1. A minimum working dilution of 1:100 was determined by indirect immunofluorescent staining on human peripheral blood lymphocytes.
2. A minimum working dilution of 1:100 was determined by indirect immunohistology using formalin-fixed, paraffin-embedded human tonsils and rat anti-human IgG as the primary antibody.

In order to obtain best results, it is recommended that each individual user determine their working dilution 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 = 3.0 - 6.0 mg/ml by absorbance at 280 nm.

Product dilution of at least 1:8 is achieved in an agar block precipitin titration assay versus dilution of normal rabbit serum.

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