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## Product Information

**ANTI-RABBIT IgG (WHOLE MOLECULE)  
FITC CONJUGATE**  
**Antibody developed in Sheep**  
**Affinity Isolated Antigen Specific Antibody**  
**Adsorbed with Human IgG**

Product No. **F 7512**

### Product Description

Antiserum is developed in sheep using purified rabbit IgG as the immunogen. Antibody is isolated from sheep anti-rabbit IgG antiserum by immunospecific purification which removes essentially all sheep serum proteins, including immunoglobulins, which do not specifically bind to rabbit IgG. The antibody preparation is solid phase adsorbed with human IgG to ensure minimal cross reactivity in tissue or cell preparations. Sheep anti-rabbit IgG is conjugated to Fluorescein Isothiocyanate (FITC). Free FITC is removed by gel filtration. The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, with 15 mM sodium azide as a preservative.

Specificity of the anti-rabbit IgG for rabbit IgG is determined by immunoelectrophoresis (IEP), prior to conjugation, using normal rabbit serum and rabbit IgG. No cross reaction with human IgG is observed.

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

### Precautions and Disclaimer

See 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

A minimum working dilution of 1:160 was determined by direct immunofluorescent labeling of human peripheral blood lymphocytes.

A minimum working dilution of 1:160 was determined by indirect immunofluorescence labeling of formalin-fixed, paraffin-embedded human tonsils using Rabbit Anti-Human IgG (Product No. I 8635) as the primary antibody.

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

Protein Concentration: Determined by absorbance at 280 nm and 495 nm ( $E_{280}^{1\%} = 14.0$ ).

F/P Molar Ratio: 3 to 8

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

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

Where:

- 0.2 = The extinction coefficient of bound FITC at a concentration of 1  $\mu$ g/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.

Working dilution should be determined by titration assay. Due to differences in assay systems, the titer may not reflect the user's actual working dilution.

### 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.

Pcs 11/01