

Product Information

**ANTI-RABBIT IgG (WHOLE MOLECULE)
FITC CONJUGATE**
Antibody developed in Goat
Affinity Isolated Antigen Specific Antibody

Product No. **F 0382**

Product Description

Antiserum is developed in goat using purified rabbit IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from goat anti-rabbit IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to rabbit IgG. The antibody preparation is then conjugated to Sigma Fluorescein Isothiocyanate (FITC), Isomer I (Product No. F 7250). Following conjugation, the FITC-antibody conjugate is extensively dialyzed to remove unbound FITC.

Specificity of the anti-rabbit IgG antibodies for rabbit IgG is determined by immunoelectrophoresis (IEP) and Ouchterlony double diffusion (ODD) with normal rabbit serum and rabbit IgG, prior to conjugation.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation.

Electrophoresis of the antibody preparation followed by diffusion versus anti-goat IgG and anti-goat whole serum result in single arcs of precipitation.

Reagents

The product is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with 15 mM sodium azide as a preservative.

Precautions and Disclaimer

Due to 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

The product is provided with an anti-rabbit IgG specific antibody content of at least 1.0 mg/ml.

The minimum titer of 1:80 is determined by indirect immunofluorescent labeling.

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

F/P Molar Ratio: 3-5

A₂₈₀/A₄₉₆: 1-1.5

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

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

$$\text{F/P Molar Ratio} = F/P \times 0.41$$

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.

Storage

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.

Pcs10/99