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Product Information

Anti-Biotin-FITC

produced in goat, affinity isolated antibody

Catalog Number **F6762**

Product Profile

Antiserum is produced in goat using biotin conjugated to carrier protein as the immunogen. Affinity isolation removes essentially all goat serum proteins, including immunoglobulins which do not specifically bind to biotin and antibodies to carrier protein. Anti-Biotin is then conjugated to fluorescein isothiocyanate (FITC), Isomer I, Catalog Number F7250. Following conjugation, unbound FITC is removed by extensive dialysis.

Specificity of the Anti-Biotin is determined by immunoelectrophoresis, prior to conjugation, versus biotin carrier protein conjugate and free carrier protein. No reactivity with free carrier protein is observed.

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

Reagent

Supplied 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

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage

For continuous use, store at 2-8 °C for a maximum of one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

Indirect immunofluorescence: a minimum working dilution of 1:80 is determined using formalin-fixed, paraffin-embedded human tonsil sections and Anti-Human IgG (γ-chain specific)-Biotin, Catalog Number B1140, as the primary antibody.

The product is provided with a specific antibody content of at least 1.0 mg/mL (prior to the addition of BSA).

F/P Molar Ratio: between 3.0 and 5.0
Determined spectrophotometrically as follows:

$$F = A_{496}/0.15$$

$$P = [A_{280} - (A_{496} \times 0.32)]/1.4$$

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

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.

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

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