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ProductInformation

ANTI-SHEEP IgG (WHOLE MOLECULE)
FITC CONJUGATE
Antibody developed in Donkey
Affinity Isolated Antigen Specific Antibody

Product Number **F 7634**

Product Description

Anti-Sheep IgG is developed in donkey using purified sheep IgG as the immunogen. Affinity isolation removes essentially all donkey serum proteins, including immunoglobulins which do not specifically bind to sheep IgG. Donkey anti-sheep IgG is then conjugated to Sigma Fluorescein Isothiocyanate (FITC), Isomer I (Product No. F 7250). Following conjugation, unbound FITC is removed by extensive dialysis.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against anti-horse IgG and anti-donkey 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 1% BSA with 0.1% 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.

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.

Product Profile

A minimum working dilution of 1:40 was determined by indirect immunofluorescent labeling of mouse spleen cells using sheep anti-mouse IgG 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.

F/P Molar Ratio: 3.0 to 5.0 (prior to the addition of BSA)

A_{280}/A_{496}: 1.0-1.5 (prior to the addition of BSA)

The F/P molar ratio is determined spectrophotometrically as follows:

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

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

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.

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