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ProductInformation

ANTI-HUMAN IgA (α-CHAIN SPECIFIC)
FITC CONJUGATE
Antibody developed in Goat
Affinity Isolated Antigen Specific Antibody

Product Number **F 5259**

Product Description

Anti-Human IgA is developed in goat using purified human IgA as the immunogen. Affinity isolated antigen specific antibody is obtained from goat anti-human IgA antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to α-chain of human IgA. Goat Anti-Human IgA is then conjugated to Sigma Fluorescein Isothiocyanate (FITC), Isomer I (Product No. F 7250). Following conjugation, unbound FITC is removed by extensive dialysis.

Specificity for the α-chain of human IgA is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for human IgA when tested against purified human IgA, IgG, IgM, Bence Jones kappa, and lambda myeloma proteins.

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.

Reagents

The conjugate 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 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 titer of 1:32 is determined by direct immunofluorescent labeling of human peripheral blood lymphocytes.

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

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

$F = A_{496}/0.15$ $P = A_{280} - (A_{496} \times 0.32)/1.4$
F/P Molar Ratio = F/P x 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.

PCS 06/02