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ProductInformation

ANTI-MOUSE IgA (α-CHAIN SPECIFIC)
Affinity Isolated Antigen Specific Antibody
Developed in Sheep

Product No. **M1272**

Antiserum is developed in sheep using purified mouse IgA (myeloma protein) as the immunogen. Affinity isolated antigen specific antibody is obtained from sheep anti-mouse IgA antiserum by immunospecific purification which removes essentially all sheep serum proteins, including immunoglobulins, which do not specifically bind to α-chain of mouse IgA. The purified antibody is lyophilized from 0.01 M sodium phosphate, 0.015 M sodium chloride, pH 7.2, to which no preservatives have been added.

Specificity

Specificity for the α-chain of mouse IgA is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for mouse IgA when tested against purified mouse IgA, IgG1, IgG2a, IgG2b, IgG3, and IgM, myeloma proteins.

Identity and Purity

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

Protein

The protein content is determined after reconstitution with 0.135M sodium chloride, by absorbance at 280 nm using $E^{1\%}_{280}$ = 14.0.

Titer

One milligram of affinity isolated antibody will react with 0.5-5.0 mg of mouse IgA as determined by single radial immunodiffusion (Becker).[1]

Reconstitution and Storage

To one vial of lyophilized powder add sufficient 0.135 M sodium chloride to achieve a 1 mg/ml solution of antibody. Rotate vial gently until powder dissolves. This will yield a protein solution in 0.01 M phosphate buffered saline. Prior to reconstitution store the product at 2-8EC. After reconstitution, the solution may be stored frozen in working aliquots. Repeated freezing and thawing is **not** recommended. If slight turbidity occurs upon prolonged storage clarify the solution by centrifugation before use.

Reference

1. Becker, W., Immunochem., **6**, 539 (1969).

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