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Product Information

ANTI-MOUSE IgG1 (HEAVY CHAIN SPECIFIC)

Developed in Goat

Affinity Isolated Antigen Specific Antibody

Product Number **M 8770**

Product Description

Anit-Mouse IgG1 is developed in goat using purified mouse IgG1 (myeloma protein) as the immunogen. Affinity isolated antigen specific antibody is obtained from goat anti-mouse IgG1 antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to heavy chain of mouse IgG1.

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

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). 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 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.

Preparation Instructions

Prior to reconstitution, store at 2-8 °C. After reconstitution, the solution may be frozen in working aliquots. Repeated freezing the thawing is not recommended.

Storage/Stability

When reconstituted with 2 ml of 0.135 M sodium chloride, each vial will yield a solution in phosphate buffered saline, pH 7.2.

Product Profile

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

One milligram of affinity isolated antibody will react with 0.7 mg of mouse IgG1 as determined by single radial immunodiffusion.¹

References

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

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