Product Information

Anti-Mouse IgM (μ-Chain Specific)-Agarose

Antibody Produced in Goat
IgG Fraction of Antiserum

A4540

Storage Temperature 2–8 °C.

Product Description

The IgG fraction of goat anti-mouse IgM (μ-chain specific) antiserum is covalently attached to cyanogen bromide activated cross-linked beaded agarose. A minimum of five milligrams of the IgG fraction is bound per milliliter of resin. After equilibration, ≥ 0.4 mg of mouse IgM can be bound and eluted per milliliter of packed resin.

Specificity for the μ-chain of mouse IgM is determined by Ouchterlony Double Diffusion (ODD), prior to agarose bead coupling. The antibody preparation is specific for mouse IgM when tested against purified mouse IgA, IgG (all subclasses), and IgM myeloma proteins.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to agarose bead coupling. Electrophoresis of the product followed by diffusion against anti-goat IgG and anti-goat whole serum results in single arcs of precipitation in the gamma region.

The antibody-agarose is supplied as a suspension in 0.5 M NaCl containing preservative.

Precautions and Disclaimer

For research use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the antibody-agarose at 2–8 °C. Do not freeze.

After use the regenerated antibody-agarose may be stored at 2–8 °C in 0.01 M sodium phosphate buffer, pH 7.2, containing 0.5 M NaCl (PB) containing preservative.

Procedure

A two milliliter column of antibody-agarose is prepared using four milliliters of the antibody-agarose suspension. The column is equilibrated in 0.01 M sodium phosphate buffer, pH 7.2, containing 0.5 M NaCl (PB). The antigen solution to be bound is applied slowly and followed by a PB wash. Unbound effluent fractions are collected and assayed for protein content (Lowry). The column is then stripped by washing with 0.1 M glycine with 0.15 M NaCl, pH 2.4, or 0.5 M acetic acid with 0.15 M NaCl, pH 2.4. Fractions containing protein are collected, brought to neutral pH, and assayed for protein content (Lowry).

Resin Regeneration

Goat Anti-Mouse IgM-Agarose may be regenerated and used for future adsorptions. Strip the agarose with ten column volumes of 0.1 M glycine with 0.15 M sodium chloride, pH 2.4, or 0.5 M acetic acid with 0.15 M sodium chloride, pH 2.4. Then wash with 0.01 M sodium phosphate buffer, pH 7.2, containing 0.5 M sodium chloride (PB).

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