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Product Information

ANTI-HUMAN IgG (Fc SPECIFIC) - AGAROSE

Antibody developed in Goat

Affinity Isolated Antibody

Antibody Adsorbed with Mouse IgG and Rat IgG

Product Number **A 3316**

Product Description

Affinity isolated antibody is obtained from goat anti-human IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to the Fc fragment of human IgG. The antibody preparation is solid phase adsorbed with mouse and rat IgG's to ensure minimal crossreactivity in tissue or cell preparations. Affinity isolated antibody is coupled to cyanogen bromide-activated agarose at 3.7 mg antibody per milliliter of resin.

Specificity for the Fc fragment of human IgG is determined by Enzyme Linked Immunosorbent Assay (ELISA) and Immunoelectrophoresis (IEP), prior to agarose bead coupling. The antibody preparation is specific for the Fc fragment of human IgG when tested against purified human IgA, IgG, IgM, Fc, and kappa and lambda light chains. No reactivity with mouse or rat IgG is observed by Ouchterlony Double Diffusion (ODD), prior to agarose bead coupling.

Identity and purity of the antibody is established by 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.

Affinity purified goat anti-human IgG bound to agarose offers the advantage of increased sensitivity for human IgG without cross-reactivity to other substances present on the membrane or cell surface. Because of the minimal interspecies cross reactivity to mouse or rat

IgG's this product is excellent for screening human monoclonal antibodies produced by hybridoma cells grown in systems containing mouse or rat immunoglobulins. It has the ability to detect and separate human IgG in human biological fluids or tissues in normal or pathological situations such as cancer or autoimmune diseases.

Reagents

The antibody-agarose is supplied as a suspension (1:1) in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

This goat antisera was maintained at pH 5.0 for 40 minutes to meet USDA requirements.

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

Store at 2-8 °C. Do Not Freeze.

Product Profile

One milliliter of Goat Anti-Human IgG (Fc fragment)-Agarose binds 3.0 mg human IgG.

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