

**Product No. A-2691****Lot 054H4857****Anti-Human IgA ( $\alpha$ -chain specific) - Agarose**

Antibody Developed in Goat

Affinity Isolated Antibody

Antibody Adsorbed with Mouse IgG and Rat IgG

Affinity isolated 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 the  $\alpha$ -chain of human IgA. The antibody preparation is solid phase adsorbed with mouse and rat IgG's to ensure minimal cross-reactivity in tissue or cell preparations. Affinity isolated antibody is coupled to cyanogen-bromide activated agarose at 3.2 mg antibody per milliliter of resin. The antibody-agarose is supplied as a suspension (1:1) in 0.01 M phosphate buffered saline, pH 7.4, containing 0.1% sodium azide (see MSDS)\* as a preservative.

**Specificity**

Specificity for the  $\alpha$ -chain of human IgA is determined by Enzyme Linked Immunosorbent Assay (ELISA) and Immunoelectrophoresis (IEP), prior to agarose bead coupling. The antibody preparation is specific for human IgA when tested against purified human IgA, IgG, IgM, 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**

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

**Uses**

Affinity purified goat anti-human IgA bound to agarose offers the advantage of increased sensitivity for human IgA 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 IgA in human biological fluids or tissues in normal or pathological situations such as cancer or autoimmune diseases.

**Binding Capacity**

One milliliter of Goat Anti-Human IgA - Agarose binds 3.3 mg human IgA.

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

**Storage**

Store at 0-5°C. Do Not Freeze.

\* 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 hazardous and safe handling practices.

Sigma warrants that its products conform to the information contained in this and other Sigma publications. Purchaser must determine the suitability of the products for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale. Issued 07/94.