

## Product Information

### **Anti-Human IgA ( $\alpha$ -chain specific)-Agarose**

produced in goat, affinity isolated antibody,  
adsorbed with mouse IgG and rat IgG

Catalog Number **A2691**

#### **Product Description**

Anti-Human IgA ( $\alpha$ -chain specific) 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 3.5 mg antibody per milliliter of resin.

Specificity for the  $\alpha$ -chain of human IgA is determined by Enzyme Linked Immunosorbent Assay (ELISA) and Immuno-electrophoresis (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 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.

#### **Reagent**

Supplied as a suspension (1:1) in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

#### **Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### **Storage/Stability**

Store at 2-8 °C. Do Not Freeze.

#### **Product Profile**

Anti-Human IgA ( $\alpha$ -chain specific)-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 binds 3-4 mg human IgA.

#### **Elution Capacity**

2-4 mg/ml

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

MG,KAA,PHC 08/11-1