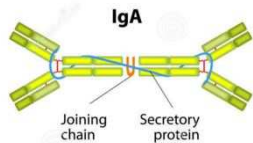


Product Data Sheet

Cat# 40020 **Goat Anti-Mouse IgA (α-chain specific)-HRP Conjugate (Aff Pure)**  
(Adsorbed with Human Serum)

**Size:** 1 ml



IgA is the predominant immunoglobulin class in body secretions, such as saliva, tears, bronchial secretions, nasal mucosal secretions, prostatic fluid, vaginal secretions, and mucous secretions of the small intestines. It

may serve both to defend against local infection and to prevent access of foreign antigens to the general immunologic system. It is also found in small amounts in blood. Because it is resistant to degradation by enzymes, secretory IgA can survive in harsh environments such as the digestive and respiratory tracts, to provide protection against microbes that multiply in body secretions. IgA does not activate complement, and opsonises only weakly. Its heavy chains are of the type α. It exists in two forms, IgA1 (90%) and IgA2 (10%): IgA1 is found in serum and made by bone marrow B cells. In IgA2, the heavy and light chains are not linked with disulfide but with noncovalent bonds. IgA2 is made by B cells located in the mucosae and has been found to secrete into colostrum, maternal milk, tears and saliva.

IgA is found in secretion in a specific form called secretory IgA, a dimer of two IgA monomers linked by two additional chains: One of these is the J chain (from join), which is a polypeptide of molecular mass 1.5 kDa, rich with cysteine and structurally completely different from other immunoglobulin chains. This chain is formed in the antibody-secreting cells. The dimeric form of IgA in the outer secretions also has a polypeptide of the same molecular mass (1.5 kDa) called the secretory chain and is produced by epithelial cells. It is also possible to find trimeric and even tetrameric IgA.

Goats were immunized with antigen grade mouse IgA heavy chain. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Purified anti-mouse IgA was labeled with highly purified preparation of horse radish Peroxidase (HRP)-enzyme using a modified periodate method.

**Form and Storage**

The conjugate is provided as liquid in enzyme stabilizing buffer containing 0.01M PBS, pH 7.4, 1% BSA and 0.01% thimersol. The product should be stored at 4°C and is stable for a minimum of 1 year. Do not store diluted solutions.

**Purity/Specificity**

The conjugate contains affinity pure antibody at approximately 0.5 mg/ml. The molar enzyme to protein (E/P) ratio = 3.0.

Specificity has been tested using IEP, immunodiffusion, and ELISA. The product reacts with mouse IgA only. The antibody may recognize other species IgA's. However, no antibody is detected to other serum proteins or other IgA's.

**Recommended Working Dilution for ELISA**

Working dilution for the specific application should be determined by the investigator to obtain the best conditions. However, dilution

of 1:3000-1:10000 may be used as starting point for most applications.

Working solution should be prepared immediately before use and diluted solution should be discarded.

**Related Material available for ADI**

Catalog#	Prod Description
40020 conjugate	Anti-Mouse IgA (α-chain sp.)-HRP conjugate
40021 conjugate	Anti-Mouse IgA (α-chain sp.)-FITC conjugate
40050	Anti-Mouse IgA (α-chain sp.)-Alk. Phosphatase conjugate
40119	Anti-Mouse IgG (heavy-chain sp.) unlabeled
40120 conjugate	Anti-Mouse IgG (heavy-chain sp.)-HRP conjugate
40121 unlabeled	Anti-Mouse IgG1 (heavy-chain sp.) aff pure, unlabeled
40121-BT labeled	Anti-Mouse IgG1 (heavy-chain sp.)-biotin labeled
40121-F conjugate	Anti-Mouse IgG1 (heavy-chain sp.)-FITC conjugate
40121-U	Anti-Mouse IgG1, unlabeled
40122 unlabeled	Anti-Mouse IgG2a (heavy-chain sp.) aff pure, unlabeled
40122-BT labeled	Anti-Mouse IgG2a (heavy-chain sp.)-biotin labeled
40122-F conjugate	Anti-Mouse IgG2a (heavy-chain sp.)-FITC conjugate
40122-UL unlabeled	Anti-Mouse IgG2a (heavy-chain sp.), unlabeled
40123 unlabeled	Anti-Mouse IgG2b (heavy-chain sp.) aff pure, unlabeled
40123-BT labeled	Anti-Mouse IgG2b (heavy-chain sp.)-biotin labeled
40123-F Conjugate	Anti-Mouse IgG2b (heavy-chain sp.)-FITC Conjugate
40020-Mouse-IgA-HRP	151119SV