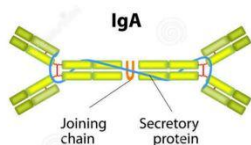


Product Data Sheet

Anti-Horse IgA Antibodies and Conjugates

Cat # 80810-U	Goat Anti-Horse IgA (Fc), unlabeled aff pure	Size: 0.25 ml
Cat # 80810-HP	Goat Anti-Horse IgA-HRP Conjugate	Size: 0.25 ml
Cat # 80810-F	Goat Anti-Horse IgA-FITC Conjugate	Size: 0.25 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 kD, 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 kD) 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 **horse IgA**. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography to remove non-specific antibodies. Specificity of antibody has been tested using immunodiffusion, and ELISA. The product reacts with IgA with no significant reactivity with IgG, or other serum proteins. The antibody may recognize other species IgA. Purified anti-horse IgA antibody is supplied as unlabeled or conjugated to FITC or HRP.

Form and Storage

Cat # 80810-U, Anti-Horse IgA, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.09% azide in **liquid** form (lot specific conc on the vial). Store at 4°C for short term or -20°C in suitable aliquots. Stability is ~6-12 months. Avoid repeated freezing and thawing.

Cat # 80810-HP, Anti-Horse IgA -HRP-conjugate

Purified antibody was coupled to HRP (RZ>3.0) using periodate method. The molar enzyme to protein (E/P) ratio = 4.0. The antibody is supplied in PBS containing 0.2% BSA and 0.05% proclin-400 as preservative in **liquid** form (lot specific conc on the vial). Store at 4°C. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:10,000-1:100,000 ELISA, 1:2000-1:20,000 for western, and 1:200-1:2000 (IHC).

Cat # 80810-F, Anti-Horse IgA-FITC -conjugate

Purified antibody was coupled to FITC at F/P ratio ~6:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.09% azide in either **lyophilized** or **liquid** form. Reconstitute powder in PBS. Store at 4°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:50-1:500 for IHC

Absorption Wavelength: 495 nm
Emission Wavelength: 528 nm

Recommended Working Dilution for ELISA

Working dilution for the specific application should be determined by the investigator to obtain the best conditions. Working solution should be prepared immediately before use and diluted solution should be discarded.

Related Material available for ADI

Catalog#	Product Description
80819	Goat Anti-Horse IgG (H+L), unlabeled aff pure
80820	Goat Anti-Horse IgG (H+L)-HRP conjugate
80840	Goat Anti-Horse IgG (H+L)-Biotin conjugate
80850	Goat Anti-Horse IgG (Fc), unlabeled aff pure
80851	Goat Anti-Horse IgG (Fc)-HRP conjugate
80852-HP	Goat Anti-Horse IgG F(ab') ₂ -HRP conjugate
80852-UL	Goat Anti-Horse IgG F(ab') ₂ IgG, aff pure
80860	Goat Anti-Horse IgM, unlabeled aff pure
80861	Goat Anti-Horse IgM-HRP conjugate
80870	Goat Anti-Horse IgE, unlabeled aff pure
80871	Goat Anti-Horse IgE-HRP conjugate
80872-U	Monoclonal Anti-Horse IgE, unlabeled