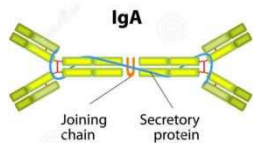


Product Data Sheet

Cat# 20023-1

Ferret Serum IgA (Control, non-immune), semi-pure for ELISA

Size: □1000Units



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.

A healthy non-immunized population of Ferrets was used to collect serum. IgA was enriched by proprietary methods. The resulting IgA preparation contains unknown amounts IgG and IgA. It is suitable for coating ELISA plates to detect anti-ferret IgG antibodies and determine relative titers. Enriched IgA preparation is supplied in a stabilizing buffer (conc. is in arbitrary units' 1 Unit is defined as the amount of IgA that provides A450=1.00 in 90 minutes standard ADI ELISA).

Form and Storage

The normal Ferret IgA is provided in PBS pH 7.4 + 0.09% sodium azide as preservative). The product should be **stored at 4°C** for short term and **-20oC** for long term storage. It is stable for a minimum of 1 year. Do not store diluted solutions.

Suggested Uses

This preparation of normal Ferrets IgA is suitable for coating the ELISA plates or as a non-immune control for ELISA, dot blot, Western or IHC. Recommended testing concn. is approx. 1-10

u/ml. It is, however, possible that this preparation may be unsuitable for some antigens or cell/tissue extracts and may give slightly higher background. Switching to another preparation from different Ferret or vendor may alleviate this problem. The purified IgG may have some residual Ferret IgA or IgA.

This product is for in vitro research use only.

Related items available

Catalog#	Prod Description
20020-1	Ferret Serum IgG/IgM/IgA (Control, non-immune), semi-purified
20021-1	Ferret Serum IgG (Control, non-immune), semi-pure for ELISA
20022-1	Ferret Serum IgM (Control, non-immune), semi-pure for ELISA
20023-1	Ferret Serum IgA (Control, non-immune), semi-pure for ELISA
80188	Ferret Serum Antibody detection ELISA kit, Qualitative
80188-A	Ferret Serum antigen-specific IgA Antibody detection and titration ELISA kit
80188-G	Ferret Serum antigen-specific IgG Antibody detection and titration ELISA kit
80188-M	Ferret Serum antigen-specific IgM Antibody detection and titration ELISA kit
NFCS-1	Normal Ferret control (non-immunized) serum, Adult mixed sex
NFCS-5	Normal Ferret control (non-immunized) serum, Adult mixed sex
70510	Anti-Ferret IgG (H+L), unlabeled
70511	Anti-Ferret IgG (H+L)-HRP conjugate
70519	Anti-Ferret IgA (alpha), unlabeled
70520	Anti-Ferret IgA (alpha)-HRP conjugate
70529	Anti-Ferret IgG (gamma), unlabeled
70529-BTN	Anti-Ferret IgG (gamma)-biotin conjugate
70530	Anti-Ferret IgG (gamma)-HRP conjugate
70539	Anti-Ferret IgM (mu), unlabeled
70540	Anti-Ferret IgM (mu)-HRP conjugate
20023-1-Ferret-IgA	151204SV

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com