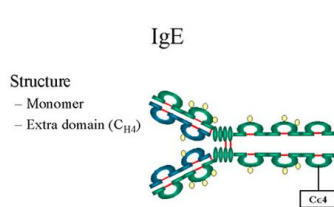


Product Data Sheet

Anti-Monkey IgE (epsilon chain specific) Antibodies

Cat# 70051	Rabbit Anti-monkey IgE, unlabeled	Size: 100 ul
Cat# 70051-BTN	Rabbit Anti-monkey IgE-biotin labeled	Size: 100 ul
Cat# 70051-HP	Rabbit Anti-monkey IgE-HRP labeled	Size: 100 ul

Antibodies are glycoproteins belonging to the immunoglobulin (Ig) superfamily. An Ig is a large, Y-shape protein produced by plasma cells that is used by the immune system to identify and neutralize pathogens such as bacteria and viruses. Antibodies are secreted by B cells or plasma cells. Antibodies are identified by isotypes or classes (IgA, IgD, IgE, IgG, and IgM). The Ig monomer is a "Y"-shaped molecule that consists of 4 polypeptide chains; two identical heavy chains (H-chains) and two identical light chains (L-chains) connected by disulfide bonds. Each chain is composed of structural domains called variable or IgV, and constant or IgC domains.



IgE's main function is immunity to parasites such as helminths like *S. mansoni*, *T. spiralis*, *F. hepatica* and *P. falciparum*. IgE also has an essential role in type I hypersensitivity, which manifests various

allergic diseases. IgE is typically the least abundant isotype—blood serum IgE levels in a normal ("non-atopic") individual are only 0.05% of the Ig concentration, (~ 10 mg/ml).

Rabbit were immunized with antigen grade Rhesus **monkey IgE**. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography to remove non-specific antibodies. Specificity of antibody has been tested using IEP, immunodiffusion, and ELISA. The product reacts with monkey IgE with no significant reactivity with monkey IgG, or other serum proteins. These antibodies have strong reactions with rhesus, cynomolgus, and baboon IgEs. Significant reactivity is also observed with human IgE. The antibody may recognize another species IgE. Purified anti-monkey IgE antibody is supplied as unlabeled or conjugated to Biotin, FITC, AP or HRP.

Form and Storage

Cat# 70051, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** or **liquid** form. Reconstitute powder in PBS to prepare stock solution. Store at 4°C in suitable aliquots and long term storage at -20°C. Stability is ~12 months. Do not freeze and thaw.

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.

ELISA: 1:5000-1:10,000 Western: 1:1000-1:5000
IHC: 1:200-1:500

Recommended secondary antibodies

Goat Anti-Rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available).

Cat# 70051-HP, HRP conjugate

The antibody is supplied in PBS, pH 7.4, and 0.01% Proclin-300 in liquid or lyophilized in the same buffer. Reconstitute powder in PBS in to prepare stock solution. Store at 4°C aliquots and long term storage at -20°C. Stability is ~6-12 months. Do not freeze and thaw.

Recommended Working Dilution for ELISA

ELISA: 1:1000-1:10,000
Western: 1:500-1:5000
IHC: 1:100-1:500

Cat# 70051-BTN, Biotin-conjugate

Purified antibody was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** or **liquid** form. Reconstitute powder in PBS to prepare stock solution. Store at 4°C in suitable aliquots and long term storage at -20°C. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA, 1:10000-1:2000 for western.

Related Material available for ADI

Catalog#	Prod Description
7010	Monkey IgA ELISA Kit, 96 tests, Quantitative
7050	Monkey IgG ELISA Kit, 96 tests, Quantitative
7060	Monkey IgM ELISA Kit, 96 tests, Quantitative
7070	Monkey IgE ELISA Kit, 96 tests, Quantitative
7075	Chimp IgE ELISA Kit, 96 tests, Quantitative
70031	Anti-Monkey IgM (mu-chain specific)-HRP conjugate
70032	Anti-Monkey IgM (mu-chain specific)-Alk. Phosphatase
70033	Anti-Monkey IgM (mu-chain specific) unlabeled
70035	Anti-Monkey IgM (mu chain sp.)-FITC conjugate
70039	Anti-Monkey IgM (mu chain sp)-Biotin conjugate
70041	Anti-Monkey IgA (alpha-chain specific)-HRP conjugate
70043	Anti-Monkey IgA (alpha-chain specific), unlabeled
70045	Anti-Monkey IgA (alpha chain sp.)-FITC conjugate
70049	Anti-Monkey IgA (alpha chain sp)-Biotin conjugate
70010	Anti-Monkey IgG (H+L) aff pure, unlabeled
70020	Anti-Monkey IgG (H+L)-HRP conjugate
70021	Anti-Monkey IgG (gamma-chain specific)-HRP
70022	Anti-Monkey IgG-Alk. Phosphatase conjugate
70023	Anti-Monkey IgG (gamma-chain specific) unlabeled
70024	Anti-Monkey IgG (H+L)-Alk, Phosphatase conjugate
70025	Anti-Monkey IgG (gamma chain sp.)-FITC conjugate
70028	Anti-Monkey IgG (gamma chain sp)-Biotin conjugate
70029	Anti-Monkey IgG (H+L)-Biotin conjugate

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