



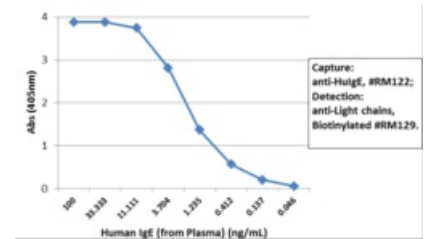
IgE (human) Rabbit Monoclonal Antibody - Biotinylated

Cat No: 32372 - 50 µg

General Data

Shipping:	dry ice
Formulation:	50 µg of protein A-affinity purified monoclonal antibody
Host:	Rabbit
Antigen:	Human IgE
Clone:	RM122
Isotype:	IgG

Application(s): ELISA



Sandwich ELISA using IgE (human) Rabbit Monoclonal Antibody - Biotinylated as the capture antibody (25µg/well) and Ig Light Chain (human) Rabbit Monoclonal Antibody - Biotinylated (Item No. 32112) as the detection antibody, followed by an alkaline phosphatase-conjugated streptavidin.

Product Overview

Immunoglobulin E (IgE) is a member of the immunoglobulin superfamily of glycoproteins that plays a central role in type I hypersensitivity reactions and the immune response to parasites.^{28520,54323,54324} It is synthesized by B cells and later secreted by plasma cells and is the least abundant circulating antibody in human serum.^{28520,54323} IgE consists of two light chains and two heavy chains, or ϵ chains, that contain one variable region and four Ig-like constant domains C ϵ 1-C ϵ 4, but lacks the flexible hinge region seen in IgD, IgG, and IgA.^{54324,54325} The heavy chains are linked together by disulfide bonds to form an Fc region and also combine with the light chains to form the Fab region, which mediate receptor and antigen binding, respectively.^{55171} IgE binds to type I Fc ϵ receptors (Fc ϵ RI) on the surface of mast cells, basophils, and antigen-presenting dendritic cells.^{54323} Multivalent antigen binding to IgE on the surface of mast cells induces IgE crosslinking and mast cell degranulation to initiate type I hypersensitivity reactions, including, but not limited to, systemic anaphylaxis, wheal and flare responses, allergic rhinitis, bronchial asthma, and food allergies. Serum levels of IgE are elevated in response to parasitic infection and IgE directly binds parasites to target the parasite for eosinophil degranulation-induced destruction. Cayman's IgE (human) Rabbit Monoclonal Antibody - Biotinylated can be used for ELISA.

FP/23/24

For research laboratory use only – Not for human diagnostic use.

Buyers agree to purchase the material subject to Purchasing Terms that can be found on our website. Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment to prevent chemical exposures.

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