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Product Information

Anti-Human IgE Protein A scaffold

Cat. No.: **AFB-08LY**
This product is for research use only and is not intended for diagnostic use.

Antigen Description

Immunoglobulin E (IgE) is a class of antibody that has been found only in mammals. IgE exists as monomers consisting of two heavy chains (ε chain) and two light chains, with the ε chain containing 4 Ig-like constant domains (Cε1-Cε4). IgE's main function is immunity to parasites such as parasitic worms like Schistosoma mansoni, Trichinella spiralis, and Fasciola hepatica. IgE may also be important during immune defense against certain protozoan parasites such as Plasmodium falciparum.
IgE also plays an essential role in type I hypersensitivity, which manifests various allergic diseases, such as allergic asthma, most types of sinusitis, allergic rhinitis, food allergy, and some types of chronic urticaria and atopic dermatitis. IgE also plays a pivotal role in allergic conditions, such as anaphylactic reactions to certain drugs, bee stings, and antigen preparations used in specific desensitization immunotherapy.

Specific Activity

This Anti-IgE Protein A scaffold Molecule is modified with a unique C-terminal cysteine for directed single-point chemical modification, facilitating labelling with fluorescent dyes, biotin or coupling to matrices. However, tail-to-tail dimers are spontaneously gen

Source

Display library

Species Reactivity

Human

Expression Host

E. coli

Storage

Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze/thaw cycles.

ANTIGEN GENE INFOMATION

Gene Name

IGHE immunoglobulin heavy constant epsilon [Homo sapiens]

Official Symbol

IGHE

Synonyms

IGHE; immunoglobulin heavy constant epsilon; IgE; Ig epsilon chain C region

Gene ID

3497

MIM

147180

UniProt ID

P01854

Chromosome Location

14q32.33

Pathway

Fc-epsilon receptor I signaling in mast cells, organism-specific biosystem; IL4-mediated signaling events, organism-specific biosystem.

Function

Antigen binding.

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