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Product Information

Anti-Human IgE Protein A scaffold

Cat. No.: **AFB-30LY**
This product is for research use only and is not intended for diagnostic use.

Product Overview

The Anti-IgE Protein A Scaffold molecule is selected against human IgE. The Anti-IgE Protein A Scaffold molecule is an ideal affinity ligand as capture reagent in ELISA and as detection reagent in dot blot. The Anti-IgE Protein A Scaffold molecule is modified with a unique C-terminal cysteine for directed single-point chemical modification, facilitating labeling with fluorescent dyes, biotin or coupling to matrices.

Antigen Description

Human IgE (Immunoglobulin E) is a glycosylated protein of 190 kD that constitutes less than 0.01% of the total immunoglobulin in serum. Most IgE is produced at the mucosal surfaces and it binds to high affinity IgE receptors present on mast cells, among others. Cross linking to the receptor leads to release of histamine and inflammatory mediators, resulting in dilation of vessels, smooth muscle contractions and increased permeability of capillaries. The IgE response is important for our protection against parasites but in the industrial world, high levels of IgE are usually connected to allergy.

Specific Activity

Anti-IgE Protein A scaffold molecule binds to human IgE. Cross reactivity with other species has not been tested.

Source

Display library

Species Reactivity

human

Expression Host

E. coli

Applications

Suitable as capture reagent in ELISA and as detection reagent in dot blot.

Molecular Weight

13.5 kDa

Storage

At +4°C is recommended for lyophilized protein. For reconstituted protein in physiological buffer, short-term storage at +4°C is recommended. For long-term storage, the protein solution should be aliquoted and then stored at -20°C. There is no decrease in

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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