

Datasheet for ABIN7596470

## IgE Protein (Biotin)



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1 Publication

### Overview

Quantity:	100 µg
Target:	IgE
Origin:	Human
Source:	Human
Protein Type:	Recombinant
Purification tag / Conjugate:	This IgE protein is labelled with Biotin.
Application:	Western Blotting (WB), ELISA, Isotype Control (IsoC), Functional Studies (Func), Flow Cytometry (FACS)

### Product Details

Specificity:	Binds with Fc effector domain to human and non human primate IgE receptors, no cross-reactivity with rodent or canine IgE receptors, specific antigen unknown
Sensitivity:	Reactivity > 99 %, compared to calibrator (Internal Standard mAb clone BSW17), tested by ELISA binding to immobilized human Standard IgE (clone SUS-11)
Characteristics:	IGHE, chromosome 14q32.33 Source: Human B cell hybridoma from healthy donors (CD40 cell culture system)
Purification:	Affinity - purified from cell culture supernatant by Immunoaffinity Chromatography on CH-Sepharose 4B - mouse anti-human IgE mAb (BSW17)
Purity:	> 95 %, tested by analytical Gel Permeation Chromatography

## Target Details

Target:	IgE
Abstract:	<a href="#">IgE Products</a>
Background:	Recombinant human IgE to be used as reference for IgE concentration measurements in biological samples (ELISA, FACS). IgE (SUS-11) recognizes the human high affinity IgE receptor (FcεR1a), the human low affinity IgE receptor (CD23) and does not interact with the corresponding IgE receptors of other species. It can be used as functional reagent in mast cell / basophil cellular assays, e.g. for controlled sensitization of such cells and subsequent cross-linking with either anti-human IgE mAbs mAb LE27 (Cat. No. 0908-1-100 or a specific recombinant cross-linking agent.

## Application Details

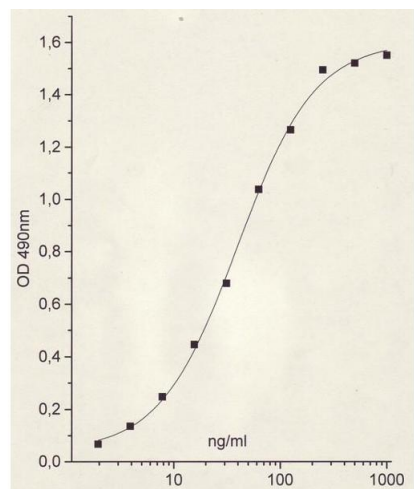
Application Notes:	For functional cellular assays (mast cell / basophil activation), when used at dilutions < 1:100, the sodium azide free formulation (Cat. No. 0911-1-005-B) is recommended
Restrictions:	For Research Use only

## Handling

Concentration:	1 mg/mL
Buffer:	PBS, pH=7.2, 0.1 % NaN <sub>3</sub>
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.
Handling Advice:	Aliquot to Avoid repeated freezing and thawing.
Storage:	4 °C

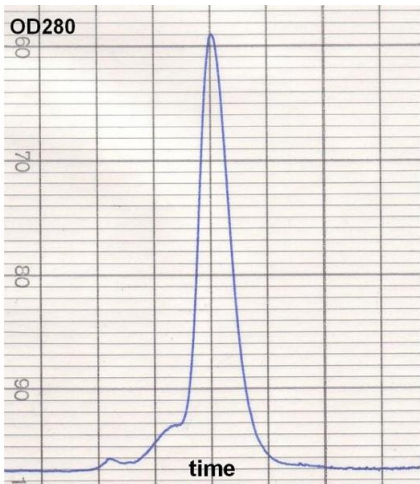
## Publications

Product cited in:	Kim, Jo, Lim, Kim, Eun, Oh, Kim, Cho, Kim: "Enhanced Type 2 Immune Reactions by Increased IL-22/IL-22Ra1 Signaling in Chronic Rhinosinusitis With Nasal Polyps." in: <b>Allergy, asthma &amp; immunology research</b> , Vol. 12, Issue 6, pp. 980-993, (2020) ( <a href="#">PubMed</a> ).
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ELISA

**Image 1.** ELISA binding to anti-hIgE mAb Le27, Detection: Streptavidin-HRP



**Image 2.** product purity: gel permeation chromatography (Superose 12/HR)