Datasheet for ABIN192257

Mouse anti-Human IgE Antibody (PE)

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Overview

Quantity:	0.1 mg
Target:	IgE
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Purified human IgE.
Clone:	BE5
Isotype:	IgG1
Specificity:	The antibody BE5 reacts with human IgE, it recognizes an epitope different from the ones recognized by 4G7 and 4H10 antibodies to IgE.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	IgE

Target Details

Abstract:	IgE Products
Background:	Immunoglobulin E (IgE) is a 180 kDa soluble protein serving as an antigen-specific unit of mast cell effector mechanisms. IgE has the lowest serum concentration of all immunoglobulins (approximately 0.5 mg/l) in healthy individuals, but upon allergen challenge its concentration in blood increases dramatically. Although biological survival of free IgE is very short (T1/2 = 2 days), it is stabilized after binding to its high affinity receptor. Unlike IgM- IgG- and IgA-committed B cells, IgE-switched B cells do not undergo clonal expansion.,Immunoglobulin E
Molecular Weight:	180 kDa

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 2-5 µg/mL.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

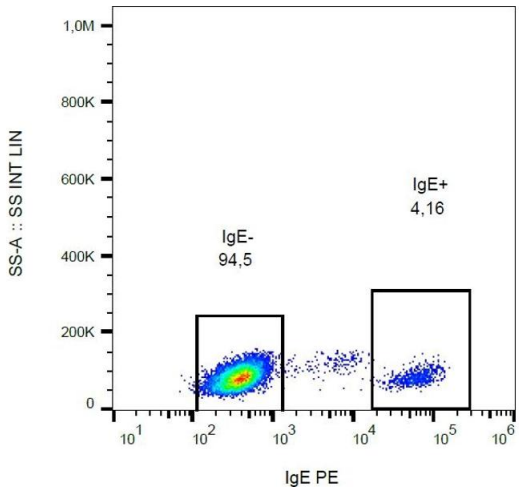
Handling

Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.** Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Kaulfürst-Soboll, Mertens, Brehler, von Schaewen: "Reduction of cross-reactive carbohydrate determinants in plant foodstuff: elucidation of clinical relevance and implications for allergy diagnosis." in: **PLoS ONE**, Vol. 6, Issue 3, pp. e17800, (2011) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of IgE in human peripheral blood with anti-IgE (BE5) PE.

