

Datasheet for ABIN94398

Mouse anti-Human IgE Antibody[2 Images](#)[2 Publications](#)[Go to Product page](#)

Overview

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

Product Details

Immunogen:	Purified human IgE.
Clone:	4G7-325
Isotype:	IgG
Specificity:	The mouse monoclonal antibody 4G7.325 reacts with human IgE, it recognizes an epitope different from the ones recognized by BE5 and 4H10 antibodies to IgE. The epitope is located within the amino acids 103-115 (WSDYNFDYSSSEE).
Cross-Reactivity (Details):	Human
Purification:	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	IgE
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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: 1-4 µg/mL.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: 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.**

Storage: 4 °C

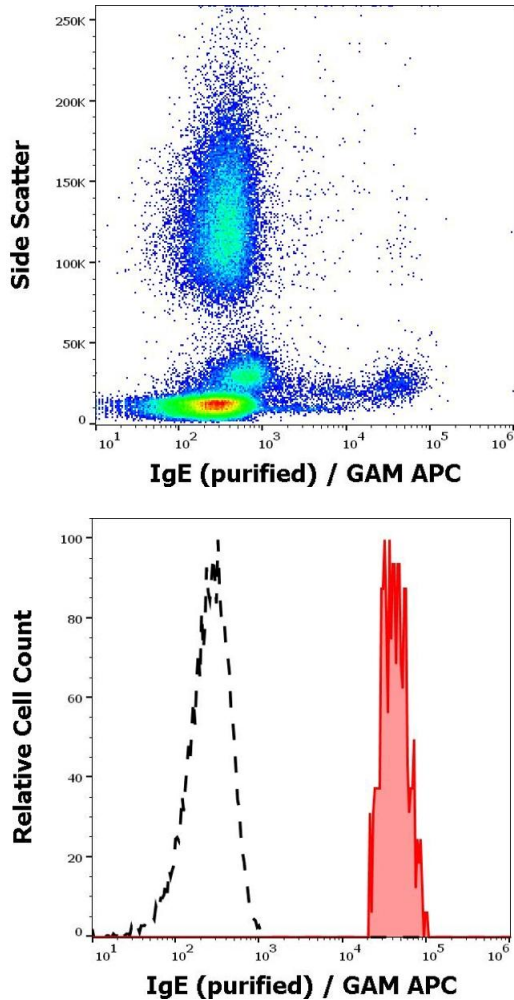
Storage Comment: Store at 2-8°C. Do not freeze.

Publications

Product cited in: Smith, Benjamin, Hozic, Derewenda, Smith, Thomas, Gafvelin, van Hage-Hamsten, Chapman: "The molecular basis of antigenic cross-reactivity between the group 2 mite allergens." in: **The Journal of allergy and clinical immunology**, Vol. 107, Issue 6, pp. 977-84, (2001) ([PubMed](#)).

Mueller, Smith, Chapman, Rule, Benjamin: "Hydrogen exchange nuclear magnetic resonance spectroscopy mapping of antibody epitopes on the house dust mite allergen Der p 2." in: **The**

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human IgE (4G7.325) purified antibody (concentration in sample 0,6 μ g/mL, GAM APC).

Flow Cytometry

Image 2. Separation of human IgE positive basophil granulocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human IgE (4G7.325) purified antibody (concentration in sample 0,6 μ g/mL, GAM APC).