

# Product datasheet

info@arigobio.com

# ARG23149 anti-Fc epsilon RI antibody [9E1]

Package: 100 μg Store at: -20°C

#### **Summary**

Product Description Mouse Monoclonal antibody [9E1] recognizes Fc epsilon RI

Mouse anti Human Fc epsilon R1 alpha antibody, clone 9E1 recognizes the human high affinity Fc receptor for IgE (Fc epsilon R1), which plays a central role in the IgE-mediated allergic response. Fc epsilon R1 consists of four subunits, a high affinity IgE binding alpha subunit, a beta chain and two disulphide linked gamma subunits. Clone 9E1 specifically recognizes the extracellular D1 domain of the Fc epsilon R1 alpha chain.Fc epsilon R1 is primarily expressed on mast cells and basophils but expression of Fc epsilon R1 has also been reported on monocytes, Langerhans cells and dendritic cells from

patients with atopic diseases.

Tested Reactivity Hu

Tested Application ELISA, FACS, ICC/IF, IP, WB

Host Mouse

Clonality Monoclonal

Clone 9E1 Isotype IgG2b

Target Name Fc epsilon RI

Species Human

Conjugation Un-conjugated

Alternate Names High affinity immunoglobulin epsilon receptor subunit alpha; Fc-epsilon RI-alpha; FcE1A; IgE Fc

receptor subunit alpha

#### **Application Instructions**

Application table	Application	Dilution
	ELISA	Assay-dependent
	FACS	1:50 - 1:100
	ICC/IF	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	FACS: Use 10 $\mu$ l of the suggested working dilution to label 10^6 cells in 100 $\mu$ l. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### **Properties**

Form Liquid

Purification Purification with Protein A.

Buffer PBS and 0.09% Sodium azide.

Preservative 0.09% Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol FCER1A

Gene Full Name Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide

Background The immunoglobulin epsilon receptor (IgE receptor) is the initiator of the allergic response. When two

or more high-affinity IgE receptors are brought together by allergen-bound IgE molecules, mediators such as histamine that are responsible for allergy symptoms are released. This receptor is comprised of

an alpha subunit, a beta subunit, and two gamma subunits. The protein encoded by this gene

represents the alpha subunit. [provided by RefSeq, Aug 2011]

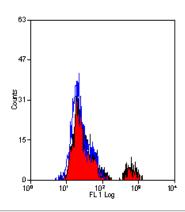
Function Binds to the Fc region of immunoglobulins epsilon. High affinity receptor. Responsible for initiating the

allergic response. Binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators (such as histamine) responsible for the manifestations of allergy. The same receptor also

induces the secretion of important lymphokines. [UniProt]

Calculated Mw 30 kDa

#### **Images**



#### ARG23149 anti-Fc epsilon RI antibody [9E1] FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG23149 anti-Fc epsilon RI antibody [9E1], showing staining of eosinophils.