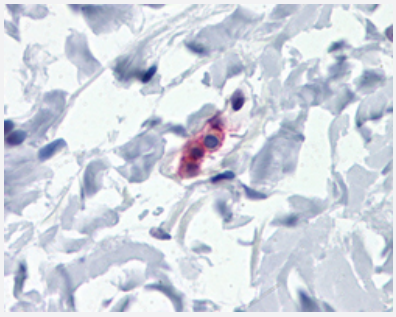
FCER1A monoclonal antibody, clone AER-37 (CRA1)

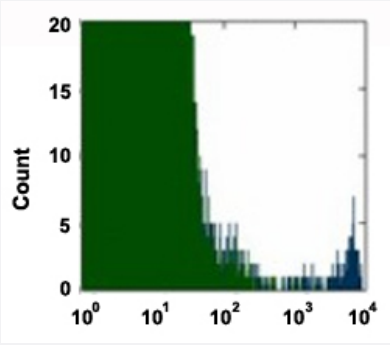
Catalog # MAB12619 Size 50 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human small intestine with FCER1A monoclonal antibody, clone AER-37 (CRA1) (Cat # MAB12619) at 20 ug/mL working concentration.



Flow Cytometry

Flow cytometric analysis of human lysed whole blood with FCER1A monoclonal antibody, clone AER-37 (CRA1) (Cat # MAB12619) (blue histogram) and an isotype control mouse IgG2b (green histogram) followed by biotin-conjugated anti-mouse IgG secondary antibody and PE-conjugated streptavidin.

Specification

Product Description	Mouse monoclonal antibody raised against human FCER1A.
Immunogen	Human FCER1A
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG2b, kappa

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Recommend Usage	Flow Cytometry Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (20 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.2 (0.09% sodium azide).
Storage Instruction	Store at 4°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human small intestine with FCER1A monoclonal antibody, clone AER-37 (CRA1) (Cat # MAB12619) at 20 ug/mL working concentration.

- Flow Cytometry

  Flow cytometric analysis of human lysed whole blood with FCER1A monoclonal antibody, clone AER-37 (CRA1) (Cat # MAB12619) (blue histogram) and an isotype control mouse IgG2b (green histogram) followed by biotin-conjugated anti-mouse IgG secondary antibody and PE-conjugated streptavidin.

Gene Info — FCER1A

Entrez GeneID	2205
Gene Name	FCER1A
Gene Alias	FCE1A, FcERI
Gene Description	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide
Omim ID	147140
Gene Ontology	Hyperlink
Gene Summary	The IgE receptor plays a central role in allergic disease, coupling allergen and mast cell to initiate the inflammatory and immediate hypersensitivity responses that are characteristic of disorders su ch as hay fever and asthma. The allergic response occurs when 2 or more high-affinity IgE recept ors are crosslinked via IgE molecules that in turn are bound to an allergen (antigen) molecule. A p erturbation occurs that brings about the release of histamine and proteases from the granules in t he cytoplasm of the mast cell and leads to the synthesis of prostaglandins and leukotrienes--poten t effectors of the hypersensitivity response. The IgE receptor consists of 3 subunits: alpha, beta (M IM 147138), and gamma (MIM 147139); only the alpha subunit is glycosylated.[supplied by OMIM

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Other Designations	Fc IgE receptor, alpha polypeptide|Fc epsilon RI alpha-chain|Fc-epsilon RI-alpha|high affinity immunoglobulin epsilon receptor alpha-subunit|immunoglobulin E receptor, high-affinity, of mast cells, alpha polypeptide

Pathway

- Asthma
- Fc epsilon RI signaling pathway

Disease

- Asthma
- Birth Weight
- Breast cancer
- Breast Neoplasms
- Bronchiolitis
- Cardiovascular Diseases
- Chronic Disease
- Coronary Artery Disease
- Dermatitis
- Drug Hypersensitivity
- Eczema
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Glomerulonephritis
- Hypersensitivity
- Infant

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- Inflammation
- Inflammatory Bowel Diseases
- Kidney Diseases
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Occupational Diseases
- Periodontitis
- Respiratory Syncytial Virus Infections
- Urticaria
- Wegener Granulomatosis

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