

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1))
Mouse Monoclonal Antibody
Catalog # ALS13121

Specification

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1)) - Product Information

Application	IHC
Primary Accession	P12319
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	30kDa KDa

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1)) - Additional Information

Gene ID 2205

Other Names

High affinity immunoglobulin epsilon receptor subunit alpha, Fc-epsilon RI-alpha, FcERI, IgE Fc receptor subunit alpha, FCER1A, FCE1A

Reconstitution & Storage

Store at 4°C, avoid repeated freeze thaw cycles.

Precautions

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1)) is for research use only and not for use in diagnostic or therapeutic procedures.

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1)) - Protein Information

Name FCER1A

Synonyms FCE1A

Function

High-affinity receptor for immunoglobulin epsilon/IgE. Mediates IgE effector functions in myeloid cells. Upon IgE binding and antigen/allergen cross-linking initiates signaling pathways that lead to myeloid cell activation and differentiation. On mast cells, basophils and eosinophils stimulates the secretion of vasoactive amines, lipid mediators and cytokines that contribute to inflammatory response, tissue remodeling and cytotoxicity against microbes. Triggers the immediate hypersensitivity response to allergens as a host defense mechanism against helminth parasites, pathogenic bacteria and venom toxicity. When dysregulated, it can elicit harmful life-threatening allergic and anaphylactic reactions.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

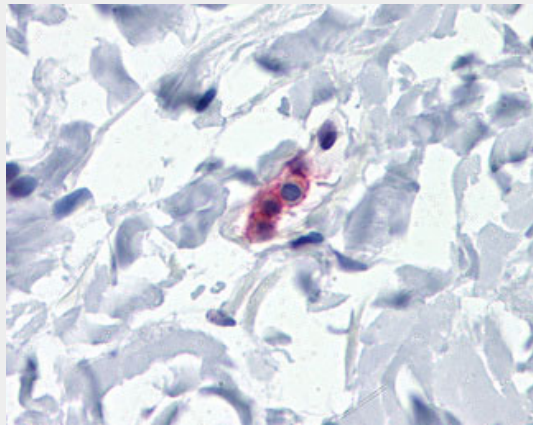
Expressed in eosinophils.

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1)) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1)) - Images



Anti-FCER1A antibody IHC of human mast cell in human small intestine.

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1)) - Background

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.

Fc Epsilon RI / FcERI Antibody (clone AER-37 (CRA1)) - References

- Kochan J., et al. *Nucleic Acids Res.* 16:3584-3584(1988).
Shimizu A., et al. *Proc. Natl. Acad. Sci. U.S.A.* 85:1907-1911(1988).
Yagi S., et al. *Eur. J. Biochem.* 220:593-598(1994).
Padlan E.A., et al. *Receptor* 2:129-144(1992).
Garman S.C., et al. *Cell* 95:951-961(1998).