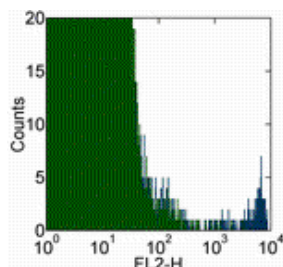


Anti-Human Fc epsilon Receptor I alpha (FcεR1) Functional Grade Purified

Catalog Number: 16-5899

Also Known As: FcεRI alpha, high affinity IgE receptor

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of human lysed whole blood with Mouse IgG2b Isotype Control Purified (cat. 14-4732) (green histogram) or Anti-Human Fc epsilon Receptor I alpha (Fc epsilon R1) Purified (blue histogram) followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Streptavidin PE (cat. 12-4317). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human Fc epsilon Receptor I alpha (FcεR1) Functional Grade Purified

REF **Catalog Number:** 16-5899

Clone: AER-37 (CRA1)

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG2b, kappa

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The AER-37 monoclonal antibody reacts with the Fc epsilon RI alpha subunit, an IgE-binding subunit lacking signal-transducing ability. Fc epsilon RI alpha is expressed on mast and basophil cells and is upregulated by the presence of IgE. Fc epsilon RI alpha forms a tetrameric complex with one beta and two gamma subunits. The beta and gamma subunits possess immunoreceptor tyrosine-based activation motifs (ITAM). The Fc epsilon RI complex plays an important role in triggering IgE-mediated allergic reactions.

Applications Reported

This AER-37 (CRA1) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This AER-37 (CRA1) antibody has been tested by flow cytometric analysis of peripheral blood leukocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Hakimi J., C. Seals, J. A. Kondas, L. Pettine, W. Danho, J. Kochan. The Alpha Subunit of the Human IgG Receptor (FcεRI) is Sufficient for High-Affinity IgE Binding. J Biol Chem 1990. 265(36):22079-81

Related Products

11-4011 Anti-Mouse IgG FITC

16-4732 Mouse IgG2b K Isotype Control Functional Grade Purified

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