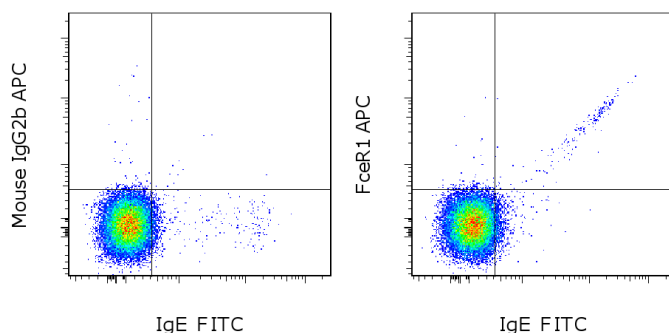


Anti-Human Fc epsilon Receptor I alpha (FceR1) APC

Catalog Number: 17-5899

Also known as: FceRI alpha, high affinity IgE receptor

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



Staining of normal human peripheral blood cells with Anti-Human IgE FITC (cat. 11-6986) and Mouse IgG2b K Isotype Control APC (cat. 17-4732) (left) or Anti-Human Fc epsilon Receptor I alpha (FceR1) APC (right). Cells in the lymphocyte gate were used for analysis (note: basophils reside in FCS/SSC position of lymphocytes).

Product Information

Contents: Anti-Human Fc epsilon Receptor I alpha (FceR1) APC

REF **Catalog Number:** 17-5899

Clone: AER-37 (CRA1)

Concentration: 5 uL (0.125 ug)/test

Host/Isotype: Mouse IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



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

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

Applications Tested

This AER-37 (CRA1) antibody has been pre-titrated and tested by flow cytometric analysis of peripheral blood cells. This can be used at 5 µL (0.125 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.

References

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Hasegawa M, Nishiyama C, Nishiyama M, Akizawa Y, Takahashi K, Ito T, Furukawa S, Ra C, Okumura K, Ogawa H. Regulation of the human Fc(epsilon)RI alpha-chain distal promoter. *J Immunol* 2003. 170(7):3732-8.

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Hasegawa S, Pawankar R, Suzuki K, Nakahata T, Furukawa S, Okumura K, Ra C. Functional expression of the high affinity receptor for IgE (FcepsilonRI) in human platelets and its' intracellular expression in human megakaryocytes. *Blood* 1999. 93(8):2543-51.

Ra C, Kuromitsu S, Hirose T, Yasuda S, Furuichi K, Okumura K. Soluble human high-affinity receptor for IgE abrogates the IgE-mediated allergic reaction. *Int Immunol*. 1993 Jan;5(1):47-54.

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

Related Products

11-6986 Anti-Human IgE FITC (Ige21)

17-4732 Mouse IgG2b K Isotype Control APC

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