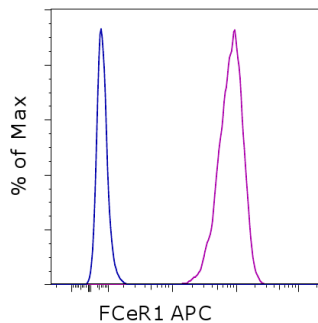


Anti-Mouse Fc epsilon Receptor I alpha (FcεR1) APC

Catalog Number: 17-5898

Also known as: high affinity IgE receptor

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



Staining of MC/9 mast cell line with 0.06 μ g of Armenian Hamster IgG Isotype Control APC (cat. 17-4888) (blue histogram) or 0.06 μ g of Anti-Mouse Fc epsilon Receptor I alpha (FcεR1) APC (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse Fc epsilon Receptor I alpha (FcεR1) APC

Catalog Number: 17-5898

Clone: MAR-1

Concentration: 0.2 mg/mL

Host/Isotype: Armenian Hamster IgG

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



Description

The MAR-1 monoclonal antibody reacts with the Fc epsilon Receptor I alpha subunit, an IgE-binding subunit lacking signal-transducing ability. Fc epsilon RI alpha; is expressed on mast and basophil cells and is up-regulated 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 MAR-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This MAR-1 antibody has been tested by flow cytometric analysis of the mast cell line MC/9. This can be used at less than or equal to 0.125 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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A. 2005 Dec 13;102(50):18105-10. (MAR-1, FC, PubMed)

Yamaguchi M., K. Hirai, A. Komiya, M. Miyamasu, Y. Furumoto, R. Teshima, K. Ohta, Y. Morita, S. J. Galli, C. Ra, K. Yamamoto. Regulation of Mouse Mast Cell Surface Fc epsilon RI expression by dexamethasone. Int Immunol 2001. 13(7):843-51.

Related Products

17-4888 Armenian Hamster IgG Isotype Control APC (eBio299Arm)

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