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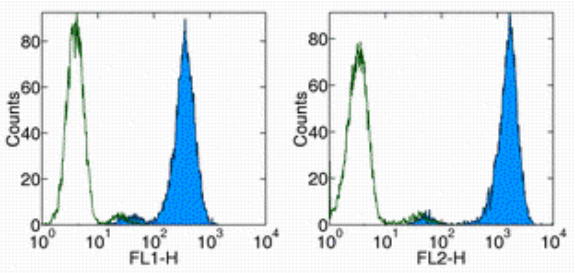
Anti-Mouse Fc epsilon Receptor I alpha (FceR1) Purified

Catalog Number: 14-5898
Also Known As:high affinity IgE receptor
RUO: For Research Use Only. Not for use in diagnostic procedures.



Surface staining of MC/9 cell line with Anti-Mouse Fc epsilon Receptor I alpha (Fc epsilon R1) FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse Fc epsilon Receptor I alpha (FceR1) Purified
REF **Catalog Number:** 14-5898
Clone: MAR-1
Concentration: 0.5 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.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

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, immunoprecipitation, and immunohistology staining of frozen tissue sections. It has also been reported in degranulation of mast cells. (Please use Functional Grade purified MAR-1, cat. 16-5898, in functional assays.)

Applications Tested

The MAR-1 antibody has been tested by flow cytometric analysis of the MC/9 cell line (a mouse mast cell line). This can be used at less than or equal to 0.25 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Related Products
11-4111 Anti-Armenian Hamster IgG FITC
14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

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