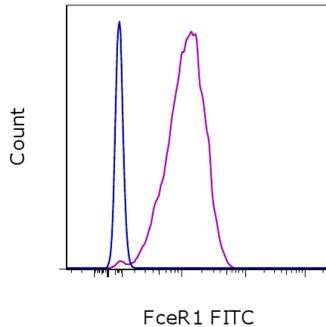


## Anti-Mouse Fc epsilon Receptor I alpha (FceR1) FITC

**Catalog Number:** 11-5898

**Also known as:** high affinity IgE receptor

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



Staining of MC/9 cell line (a mouse mast cell line) with 0.06 ug of Armenian Hamster IgG Isotype Control FITC (cat. 11-4888) (blue histogram) or 0.06 ug of Anti-Mouse Fc epsilon Receptor I alpha (FceR1) FITC (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor<sup>®</sup> 780 (cat. 65-0865), were used for analysis.

### Product Information

**Contents:** Anti-Mouse Fc epsilon Receptor I alpha (FceR1) FITC

**REF** **Catalog Number:** 11-5898

**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. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium 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

The MAR-1 antibody has been reported for use in flow cytometric analysis.

### 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 0.125 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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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

11-4888 Armenian Hamster IgG Isotype Control FITC (eBio299Arm)

65-0865 Fixable Viability Dye eFluor® 780

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