

Tel: 888.999.1371 or 858.642.2058

Fax: 858.642.2046 Web: www.ebioscience.com E-mail: info@ebioscience.com

Product Information

Contents: Affinity Purified anti-mouse FceRIa (FceRI-a, high affinity

IgE receptor)

Catalog Number: 14-5898 Sizes: 50 ug, 100 ug, 500 ug

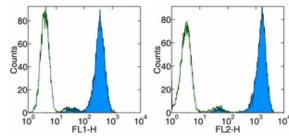
Formulation: Phosphate buffer pH 7.2,

150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C. Avoid repeated freeze/thaw cycles.

Clone: MAR-1

Isotype: Armenian Hamster IgG



Surface staining of MC/9 cells with anti-mouse FceRI alpha (MAR-1) FITC (left), and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Formats of This Product			
Format	Excite (nm)		Reported Applications
FITC anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor)	488	518	FC
PE anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor)	488	575	FC
Biotin anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor)	N/A	N/A	FC
Affinity Purified anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor)	N/A	N/A	FA FC IH/F IHC/P IP WB
Functional Grade* Purified anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor)	N/A	N/A	FA FC
	FITC anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) PE anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Biotin anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Affinity Purified anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Functional Grade* Purified anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-a, FceRI-a, FceRI-a)	Format Excite (nm) FITC anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) PE anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Biotin anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Affinity Purified anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Functional Grade* Purified anti-mouse FceRI alpha (FceRIa, FceRI-a,	Format Excite (nm) FITC anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) PE anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Biotin anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Affinity Purified anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) Functional Grade* Purified anti-mouse FceRI alpha (FceRIa, FceRI-a,

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg. Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The MAR-1 monoclonal antibody reacts with the Fc ϵ RIa subunit, an IgE-binding subunit lacking signal-transducing ability. Fc ϵ RIa is expressed on mast and basophil cells and is up-regulated by the presence of IgE. Fc ϵ RIa forms a tetrameric complex with one β and two γ subunits. The β and γ subunits possess immunoreceptor tyrosine-based activation motifs (ITAM). The Fc ϵ RI complex plays an important role in triggering IgE-mediated allergic reactions.

Usage

For research use only, not for diagnostic or therapeutic use. The MAR-1 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB), immunohistochemical staining of frozen tissue sections, and immunohistochemical staining of paraffin embedded 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 $0.25 \,\mu g$ per million cells in a $100 \,\mu l$ total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 13-4113	Biotin Anti-Armenian Hamster IgG (clone Polyclonal)
Cat. 11-4317	Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317	Streptavidin-PE (Phycoerythrin)
Cat. 17-4317	Streptavidin Allophycocyanin (SA-APC)
Cat. 16-4444	Functional Grade Purified Armenian Hamster IgG Isotype Control (clone n/a)
Cat. 11-5898	FITC anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) (clone MAR-1)
Cat. 12-5898	PE anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) (clone MAR-1)
Cat. 13-5898	Biotin anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) (clone MAR-1)
Cat. 16-5898	Functional Grade Purified anti-mouse FceRI alpha (FceRIa, FceRI-a, FceRI-alpha, high affinity IgE receptor) (clone MAR-
1)	

References

Personal Correspondence

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

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