

FceR1 alpha Monoclonal Antibody (MAR-1), FITC, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MAR-1
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465308

Applications	Tested Dilution	Publications
Western Blot (WB)	-	3 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	56 Publications
Immunoprecipitation (IP)	-	1 Publication
Functional Assay (FN)	-	1 Publication
In vitro Assay (IV)	-	2 Publications

Product Specific Information

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.

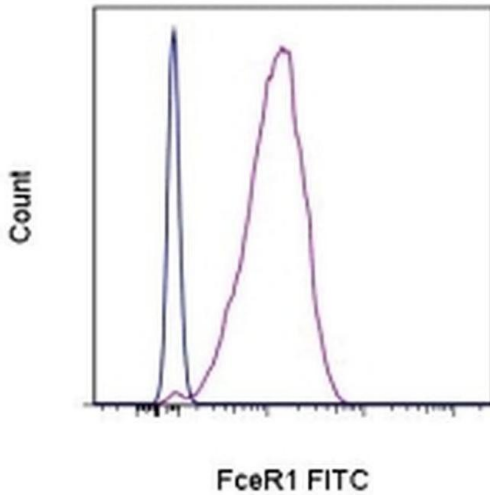
Applications Tested: The MAR-1 antibody has been tested by flow cytometric analysis of the MC/9 cell line (a mouse mast cell line). This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a

cell sample in a final volume of 100 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For Fc ϵ R1 alpha Monoclonal Antibody (MAR-1), FITC, eBioscience™



Fc ϵ R1 alpha Antibody (11-5898-82) in Flow

Staining of MC/9 cell line (a mouse mast cell line) with 0.06 μ g of Armenian Hamster IgG Isotype Control FITC (Product # 11-4888-81) (blue histogram) or 0.06 μ g of Anti-Mouse Fc epsilon Receptor I alpha (Fc ϵ R1) FITC (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14), were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Western Blot (3)

Frontiers in immunology

Positive and Negative Regulatory Roles of C-Terminal Src Kinase (CSK) in FcRI-Mediated Mast Cell Activation, Independent of the Transmembrane Adaptor PAG/CSK-Binding Protein.

"Published figure using FceR1 alpha monoclonal antibody (Product # 11-5898-82) in Western Blot"

Authors: Potuckova L, Draberova L, Halova I, Paulenda T, Draber P

Species
Not Applicable

Dilution
Not Cited

Year
2019

Nature communications

Na⁺-H⁺ exchanger 1 determines atherosclerotic lesion acidification and promotes atherogenesis.

"Published figure using FceR1 alpha monoclonal antibody (Product # 11-5898-82) in Western Blot"

Authors: Liu CL, Zhang X, Liu J, Wang Y, Sukhova GK, Wojtkiewicz GR, Liu T, Tang R, Achilefu S, Nahrendorf M, Libby P, Guo J, Zhang JY, Shi GP

Species
Not Applicable

Dilution
Not Cited

Year
2019

[View more WB references on thermofisher.com](#)

Immunohistochemistry (1)

Nature medicine

A next-generation dual-recombinase system for time- and host-specific targeting of pancreatic cancer.

"Published figure using FceR1 alpha monoclonal antibody (Product # 11-5898-82) in Immunofluorescence"

Authors: Schönhuber N, Seidler B, Schuck K, Veltkamp C, Schachtler C, Zukowska M, Eser S, Feyerabend TB, Paul MC, Eser P, Klein S, Lowy AM, Banerjee R, Yang F, Lee CL, Moding EJ, Kirsch DG, Scheideler A, Alessi DR, Varela I, Bradley A, Kind A, Schnieke AE, Rodewald HR, Rad R, Schmid RM, Schneider G, Saur D

Species
Not Applicable

Dilution
Not Cited

Year
2014

Immunocytochemistry (2)

Scientific reports

IL-33/ST2 signalling and crosstalk with FcRI and TLR4 is targeted by the parasitic worm product, ES-62.

"11-5898 was used in Flow cytometry/Cell sorting to investigate whether ES62 targets the MyD88-IL-33 signalling network by subverting ST2-signalling to exhibit therapeutic potential in allergy."

Authors: Ball DH, Al-Riyami L, Harnett W, Harnett MM

Species
Mouse

Dilution
Not Cited

Year
2018

More applications with references on thermofisher.com

Flow (56)

IP (1)

FN (1)

IV (2)

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