FceR1 alpha Monoclonal Antibody (MAR-1), PerCP-eFluor™ 710, 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), PerCP-eFluor™ 710, eBioscience™	
Class	Monoclonal	
Туре	Antibody	
Clone	MAR-1	
Conjugate	PerCP-eFluor™ 710	
Excitation/Emission Max	482/708 nm	
Form	Liquid	
Concentration	0.2 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_2573801	

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 μg/test	13 Publications
Functional Assay (FN)	-	1 Publication

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: 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 MC/9 cell line (a mouse mast cell line). This can be used at less than or equal to 0.06 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.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

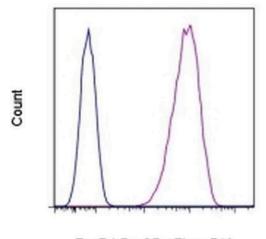
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Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For FceR1 alpha Monoclonal Antibody (MAR-1), PerCP-eFluor™ 710, eBioscience™



FceR1 alpha Antibody (46-5898-82) in Flow

Staining of MC/9 cell line (a mouse mast cell line) with 0.03 µg of Armenian Hamster IgG Isotype Control PerCP-eFluor® 710 (Product # 46-4888-82) (blue histogram) or 0.03 µg of Anti-Mouse Fc epsilon Receptor I alpha (FceR1) PerCPeFluor® 710 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14), were used for analysis.

FceR1 PerCP-eFluor 710

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□ 14 References

Flow Cytometry (13)

Frontiers in immunology	
NLRP3 Inflammasome Activation of Mast Cells by Estrogen via the	
Nuclear-Initiated Signaling Pathway Contributes to the Development of	
Endometriosis.	

"Published figure using FceR1 alpha monoclonal antibody (Product # 46-5898-82) in Flow Cytometry" Authors: Guo X,Xu X,Li T,Yu Q,Wang J,Chen Y,Ding S,Zhu L,Zou G,Zhang X

The Journal of biological chemistry

SNAP23 is essential for platelet and mast cell development and required in connective tissue mast cells for anaphylaxis.

"Published figure using FceR1 alpha monoclonal antibody (Product # 46-5898-82) in Flow Cytometry" Authors: Cardenas RA,Gonzalez R,Sanchez E,Ramos MA,Cardenas EI,Rodarte AI,Alcazar-Felix RJ,Isaza A,Burns AR, Heidelberger R,Adachi R

View more Flow references on thermofisher.com

Functional Assay (1)

Nature immunology MHC class II-dependent basophil-CD4+ T cell interactions promote T(H)2 cytokine-dependent immunity.

Authors: Perrigoue JG,Saenz SA,Siracusa MC,Allenspach EJ,Taylor BC,Giacomin PR,Nair MG,Du Y,Zaph C,van Rooijen N,Comeau MR,Pearce EJ,Laufer TM,Artis D

More applications with references on thermofisher.com

Year 2022

Year 2021

Year 2009