

FceR1 alpha Monoclonal Antibody (MAR-1), APC-eFluor™ 780, 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), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MAR-1
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 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_2573990

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 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 the MC/9 cell line (a mouse mast cell line). This can be used at less than or equal to 0.5 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.

APC-eFluor® 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from

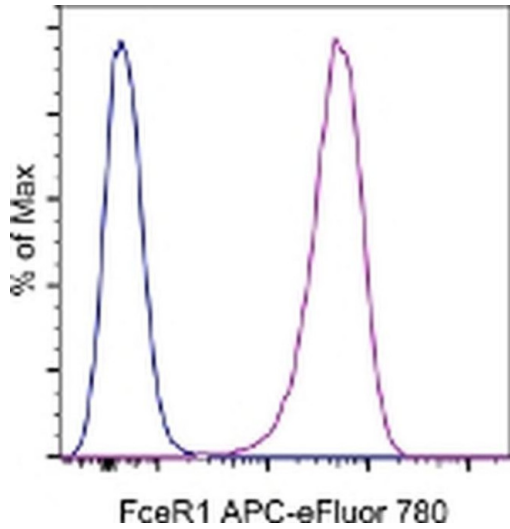
light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For FceR1 alpha Monoclonal Antibody (MAR-1), APC-eFluor™ 780, eBioscience™



FceR1 alpha Antibody (47-5898-82) in Flow
Staining of MC/9 cells with 0.25 µg of Armenian Hamster IgG Isotype Control APC-eFluor® 780 (Product # 47-4888-80) (blue histogram) or 0.25 µg of Anti-Mouse Fc epsilon Receptor I alpha (FceR1) APC-eFluor® 780 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 520 (Product # 65-0867-14), were used for analysis.

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

Flow Cytometry (13)

Frontiers in immunology	Year 2022
NLRP3 Inflammasome Activation of Mast Cells by Estrogen <i>via</i> the Nuclear-Initiated Signaling Pathway Contributes to the Development of Endometriosis.	
"Published figure using FceR1 alpha monoclonal antibody (Product # 47-5898-82) 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	Year 2021
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 # 47-5898-82) 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.cn](#)

Functional Assay (1)

Nature immunology	Year 2009
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.cn

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