

FcεR1 alpha Monoclonal Antibody (MAR-1), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MAR-1
Conjugate	Super Bright™ 436
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2762755

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	1 Publication
Immunoprecipitation (IP)	-	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: 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 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

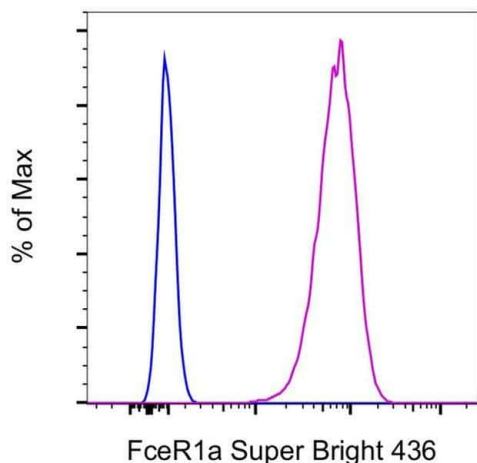
When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright

Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For FcεR1 alpha Monoclonal Antibody (MAR-1), Super Bright™ 436, eBioscience™



FcεR1 alpha Antibody (62-5898-82) in Flow

MC/9 cells (a mouse mast cell line) were stained with Armenian Hamster IgG Isotype Control, Super Bright 436 (Product # 62-4888-82) (blue histogram) or Fc epsilon Receptor I alpha (FcεR1) Monoclonal Antibody, Super Bright 436 (purple histogram). Total viable cells were used for analysis.

2 References

Flow Cytometry (1)

Journal of neuroinflammation

Mutant Huntingtin affects toll-like receptor 4 intracellular trafficking and cytokine production in mast cells.

"Published figure using FcεR1 alpha monoclonal antibody (Product # 62-5898-82) in Flow Cytometry"

Authors: Pérez-Rodríguez MJ, Ibarra-Sánchez A, Román-Figueroa A, Pérez-Severiano F, González-Espinosa C

Year
2020

Immunoprecipitation (1)

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 FcεR1 alpha monoclonal antibody (Product # 62-5898-82) in Immunoprecipitation"

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

Year
2019

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