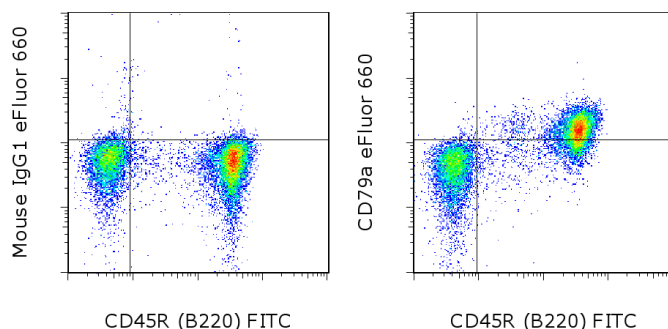


Anti-Mouse CD79a eFluor® 660 (Alexa Fluor® 647 Replacement)

Catalog Number: 50-0791

Also known as: Ig-alpha, mb-1, Ly-54

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.5 ug of Mouse IgG1 K Isotype Control eFluor® 660 (cat. 50-4714) (left) or 0.5 ug of Anti-Mouse CD79a eFluor® 660 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD79a eFluor® 660 (Alexa Fluor® 647 Replacement)

Catalog Number: 50-0791

Clone: 24C2.5

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



Description

This 24C2.5 monoclonal antibody reacts with the intracellular tail of mouse CD79a (also known as Ig alpha or mb-1), a signaling component of the B cell receptor (BCR). CD79a heterodimerizes with CD79b (Ig beta, B29), and together with surface Ig, make up the BCR. Both CD79 subunits consist of a single extracellular Ig domain, a transmembrane domain, and an intracellular signaling domain. CD79a is expressed almost exclusively on B cells, as well as in most B lineage acute lymphoblastic leukemias. The cytoplasmic domain of CD79a contains immunoreceptor tyrosine-based activation motifs (ITAMs), which constitute the signal transducing portions of the BCR. Tyrosine phosphorylation of these ITAMs by Syk and Lyn initiates numerous signaling cascades, resulting in B cell activation, proliferation, and differentiation.

Applications Reported

This 24C2.5 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This 24C2.5 antibody has been tested by intracellular staining and flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Patterson HC, Kraus M, Kim YM, Ploegh H, Rajewsky K. The B cell receptor promotes B cell activation and proliferation through a non-ITAM tyrosine in the Igalph cytoplasmic domain. *Immunity*. 2006 Jul;25(1):55-65.

Pike KA, Iacampo S, Friedmann JE, Ratcliffe MJ. The cytoplasmic domain of Ig alpha is necessary and sufficient to support efficient early B cell development. *J Immunol*. 2004 Feb 15;172(4):2210-8.

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Melenz D, Ruschel A, Vettermann C, Jäck HM. Immunoglobulin mu heavy chains do not mediate tyrosine phosphorylation of Ig alpha from the ER-cis-Golgi. J Immunol. 2003 ;171(6):3091-101. (**24C2.5**, FC, WB, Pubmed)

Astsaturov IA, Matutes E, Morilla R, Seon BK, Mason DY, Farahat N, Catovsky D. Differential expression of B29 (CD79b) and mb-1 (CD79a) proteins in acute lymphoblastic leukaemia. Leukemia. 1996 May;10(5):769-73.

Related Products

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

50-4714 Mouse IgG1 K Isotype Control eFluor® 660 (P3.6.2.8.1)

88-8823 Fixation & Permeabilization Buffers