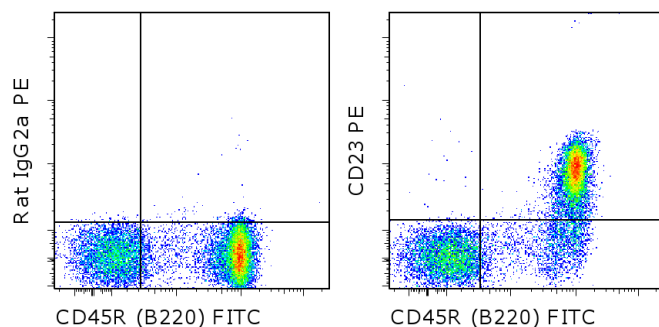


Anti-Mouse CD23 PE

Catalog Number: 12-0232

Also known as: Low Affinity IgE Receptor, FcεRII

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 0.06 ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (left) or 0.06 ug of Anti-Mouse CD23 PE (right). Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Mouse CD23 PE

Catalog Number: 12-0232

Clone: B3B4

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, 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

Description

The B3B4 monoclonal antibody reacts with mouse CD23, a 45 kDa type II transmembrane glycoprotein. CD23 is expressed on resting conventional B cells, and its expression is modulated upon B-cell activation. B-1 cell lineage (CD5+ B cells) does not express CD23. Soluble forms of the antigen have been reported to be biologically active. CD23 is a low affinity receptor for IgE and is thought to play a role in the regulation of IgE response and B-cell activation. CD21 is thought to bind to CD23.

Applications Reported

The B3B4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The B3B4 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. 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 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.

References

Rabin E, Cong YZ, Wortis HH. Loss of CD23 is a consequence of B-cell activation. Implications for the analysis of B-cell lineages. *Ann N Y Acad Sci.* 1992 May 4;651:130-42.

Waldschmidt TJ, Kroese FG, Tygrett LT, Conrad DH, Lynch RG. The expression of B cell surface receptors. III. The murine low-affinity IgE Fc receptor is not expressed on Ly 1 or 'Ly 1-like' B cells. *Int Immunol.* 1991 Apr;3(4):305-15.

Waldschmidt TJ, Conrad DH, Lynch RG. The expression of B cell surface receptors. I. The ontogeny and distribution of the murine B cell IgE Fc receptor. *J Immunol.* 1988 Apr 1;140(7):2148-54.

Rao M, Lee WT, Conrad DH. Characterization of a monoclonal antibody directed against the murine B lymphocyte receptor for IgE. *J Immunol.* 1987 Mar 15;138(6):1845-51.

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Lee WT, Rao M, Conrad DH. The murine lymphocyte receptor for IgE. IV. The mechanism of ligand-specific receptor upregulation on B cells. J Immunol. 1987 Aug 15;139(4):1191-8

Related Products

00-4222 Flow Cytometry Staining Buffer

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

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)