

CD23 Monoclonal Antibody (B3B4), Biotin, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	B3B4
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466392

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	23 Publications
Miscellaneous PubMed (Misc)	-	3 Publications

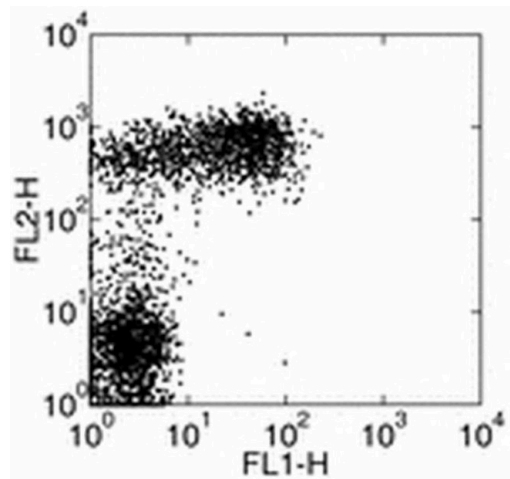
Product Specific Information

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 splenocytes. 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.

Filtration: 0.2 µm post-manufacturing filtered.



CD23 Antibody (13-0232-81) in Flow
Surface staining of mouse splenocytes with Anti-Human/Mouse CD45R (B220) PE (Product # 12-0452-82) and Anti-Mouse CD23 FITC. Total viable cells were used for analysis.

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Flow Cytometry (23)

<p>Frontiers in immunology</p> <p>Estrogen Receptor Alpha Signaling Is Responsible for the Female Sex Bias in the Loss of Tolerance and Immune Cell Activation Induced by the Lupus Susceptibility Locus <i>Sle1b</i>.</p> <p>"Published figure using CD23 monoclonal antibody (Product # 13-0232-81) in Flow Cytometry"</p> <p>Authors: Graham JH,Yoachim SD,Gould KA</p>	<p>Year 2021</p>
<p>Nature immunology</p> <p>Smc3 dosage regulates B cell transit through germinal centers and restricts their malignant transformation.</p> <p>"Published figure using CD23 monoclonal antibody (Product # 13-0232-81) in Flow Cytometry"</p> <p>Authors: Rivas MA,Meydan C,Chin CR,Challman MF,Kim D,Bhinder B,Kloetgen A,Viny AD,Teater MR,McNally DR,Doane AS,Béguelin W,Fernández MTC,Shen H,Wang X,Levine RL,Chen Z,Tsirigos A,Elemento O,Mason CE,Melnick AM</p>	<p>Year 2021</p>

[View more Flow references on thermofisher.cn](#)

Miscellaneous PubMed (3)

<p>Journal of visualized experiments : JoVE</p> <p>Retroviral Overexpression of CXCR4 on Murine B-1a Cells and Adoptive Transfer for Targeted B-1a Cell Migration to the Bone Marrow and IgM Production.</p> <p>"13-0232 was used in Magnetic cell separation to describe a method to target B-1a cell migration to the bone marrow by retroviral-mediated overexpression of the C-X-C motif chemokine receptor 4 (CXCR4)."</p> <p>Authors: Upadhye A,Marshall M,Garmey JC,Bender TP,McNamara C</p>	<p>Year 2020</p> <p>Species Mouse</p>
<p>Cell reports</p> <p>Plasma Cell Fate Is Orchestrated by Elaborate Changes in Genome Compartmentalization and Inter-chromosomal Hubs.</p> <p>"13-0232 was used in Cell Culture to examine whether plasma cell development is also associated with changes in nuclear architecture."</p> <p>Authors: Bortnick A,He Z,Aubrey M,Chandra V,Denholtz M,Chen K,Lin YC,Murre C</p>	<p>Year 2020</p> <p>Species Mouse</p>

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