

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

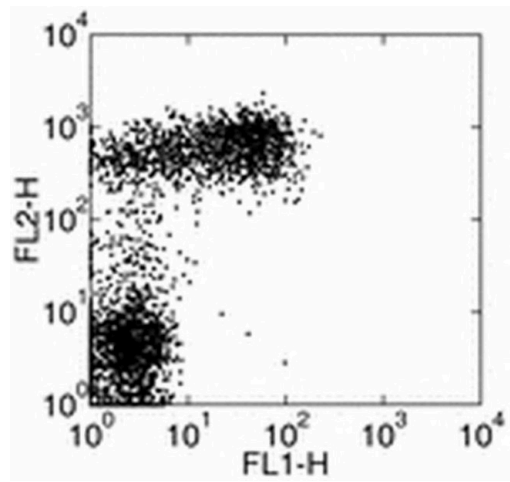
Product Specific Information

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.

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

Flow Cytometry (23)

Frontiers in immunology

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 *Sle1b*.

"Published figure using CD23 monoclonal antibody (Product # 13-0232-81) in Flow Cytometry"

Authors: Graham JH,Yoachim SD,Gould KA

Year
2021

Nature immunology

Smc3 dosage regulates B cell transit through germinal centers and restricts their malignant transformation.

"Published figure using CD23 monoclonal antibody (Product # 13-0232-81) in Flow Cytometry"

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

Year
2021

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

Miscellaneous PubMed (3)

Journal of visualized experiments : JoVE

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.

"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)."

Authors: Upadhye A,Marshall M,Garmey JC,Bender TP,McNamara C

Year
2020

Species
Mouse

Cell reports

Plasma Cell Fate Is Orchestrated by Elaborate Changes in Genome Compartmentalization and Inter-chromosomal Hubs.

"13-0232 was used in Cell Culture to examine whether plasma cell development is also associated with changes in nuclear architecture."

Authors: Bortnick A,He Z,Aubrey M,Chandra V,Denholtz M,Chen K,Lin YC,Murre C

Year
2020

Species
Mouse

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

More applications with references on thermofisher.cn

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