

# CD23 Monoclonal Antibody (B3B4), eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	B3B4
Conjugate	Unconjugated
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
RRID	AB_467160

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	-
Flow Cytometry (Flow)	0.5 µg/test	33 Publications
Functional Assay (FN)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

## 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, and immunohistochemical staining.

**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 0.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.

## 35 References

### Flow Cytometry (33)

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 # 14-0232-81) 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 # 14-0232-81) 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](#)

### Functional Assay (1)

Nature communications

#### Alternative activation generates IL-10 producing type 2 innate lymphoid cells.

"14-0232 was used in Functional assays to demonstrate the generation of a previously unappreciated IL-10 producing type 2 innate lymphoid cell effector cell population."

Authors: Seehus CR, Kadavallore A, Torre B, Yeckes AR, Wang Y, Tang J, Kaye J

Year  
2017

Species  
Mouse

Dilution  
1:500

### Miscellaneous PubMed (1)

International immunology

#### Bone marrow-induced Mef2c deficiency delays B-cell development and alters the expression of key B-cell regulatory proteins.

"14-0232 was used in Flow cytometry/Cell sorting to evaluate the role of Mef2c in B-cell development."

Authors: Debnath I, Roundy KM, Pioli PD, Weis JJ, Weis JH

Year  
2013

Species  
Mouse

### More applications with references on thermofisher.cn

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