

# 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    | 16 Publications |
| Miscellaneous PubMed (Misc) | -               | 3 Publications  |

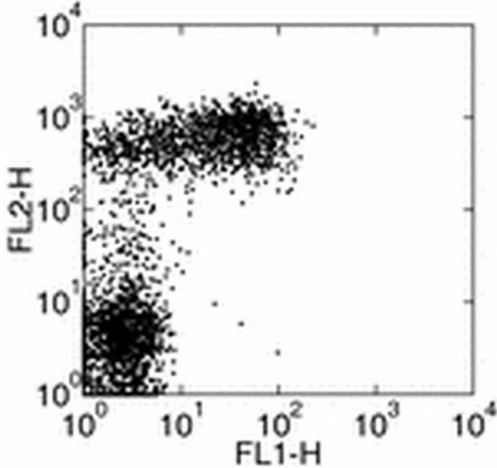
## Product Specific Information

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 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.

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.com](http://thermofisher.com)

## 19 References

### Flow Cytometry (16)

Frontiers in immunology

#### Peritoneal Cells Mediate Immune Responses and Cross-Protection Against Influenza A Virus.

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

Authors: Gautam A, Park BK, Kim TH, Akauliya M, Kim D, Maharjan S, Park J, Kim J, Lee H, Park MS, Lee Y, Kwon HJ

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

Frontiers in immunology

#### Prolonged Deleterious Influences of Chemotherapeutic Agent CPT-11 on Resident Peritoneal Macrophages and B1 Cells.

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

Authors: Bai WJ, Li CG, Zhang CC, Xu LH, Zeng QZ, Hu B, Hong Z, He XH, Ouyang DY

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

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

### 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

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

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

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

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

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