

CD23 Monoclonal Antibody (B3B4), Super Bright™ 645, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	B3B4
Conjugate	Super Bright™ 645
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2734922

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	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: This eBio4KB128 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio4KB128 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

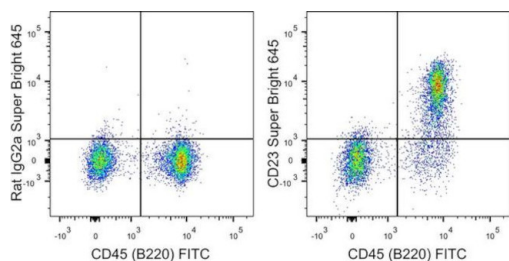
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD23 Monoclonal Antibody (B3B4), Super Bright™ 645, eBioscience™



CD23 Antibody (64-0232-80) in Flow

C57BL/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.25 μ g of Rat IgG2a kappa Isotype Control, Super Bright 645 (Product # 64-4321-82) (left) or 0.25 μ g of CD23 Monoclonal Antibody, Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

3 References

Flow Cytometry (3)

Nature immunology

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

"Published figure using CD23 monoclonal antibody (Product # 64-0232-82) 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, Tsigiris A, Elemento O, Mason CE, Melnick AM

Year
2021

Virology journal

CD83 expression regulates antibody production in response to influenza A virus infection.

"Published figure using CD23 monoclonal antibody (Product # 64-0232-82) in Flow Cytometry"

Authors: Akauliya M, Gautam A, Maharjan S, Park BK, Kim J, Kwon HJ

Year
2020

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

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