

CD19 Monoclonal Antibody (eBio1D3 (1D3)), Super Bright™ 645, eBioscience™

Product Details	
Size	100 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	eBio1D3 (1D3)
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_2688119

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	12 Publications

Product Specific Information

Description: The eBio1D3 monoclonal antibody reacts with mouse CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, MHC class II, and CD19 form a multimolecular complex that associates with the BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells.

Applications Reported: This eBio1D3(1D3) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio1D3(1D3) 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.

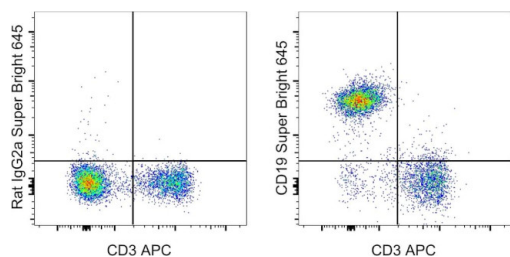
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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 degrees 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 CD19 Monoclonal Antibody (eBio1D3 (1D3)), Super Bright™ 645, eBioscience™



CD19 Antibody (64-0193-82) in Flow

C57BL/6 mouse splenocytes were stained with CD3 Monoclonal Antibody, APC (Product # 17-0031) and 0.25 μ g of Rat IgG2a kappa Isotype Control, Super Bright 645 (Product # 64-4321) (left) or 0.25 μ g of CD19 Monoclonal Antibody, Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

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

12 References

Flow Cytometry (12)

Cellular and molecular gastroenterology and hepatology

STING Activated Tumor-Intrinsic Type I Interferon Signaling Promotes CXCR3 Dependent Antitumor Immunity in Pancreatic Cancer.

"Published figure using CD19 monoclonal antibody (Product # 64-0193-82) in Flow Cytometry"

Authors: Vonderhaar EP, Barnekow NS, McAllister D, McOlash L, Eid MA, Riese MJ, Tarakanova VL, Johnson BD, Dwinell MB

Year
2022

Frontiers in immunology

Regulatory B Cells (Bregs) Inhibit Osteoclastogenesis and Play a Potential Role in Ameliorating Ovariectomy-Induced Bone Loss.

"Published figure using CD19 monoclonal antibody (Product # 64-0193-82) in Flow Cytometry"

Authors: Sapra L, Bhardwaj A, Mishra PK, Garg B, Verma B, Mishra GC, Srivastava RK

Year
2021

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More applications with references on thermofisher.com

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