CD19 Monoclonal Antibody (eBio1D3 (1D3)), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio1D3 (1D3)
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Amount	100 µg
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_2637308

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	53 Publications

Product Specific Information

Description: The eBio1D3 (1D3) 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 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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. Protect this vial and stained samples from light.

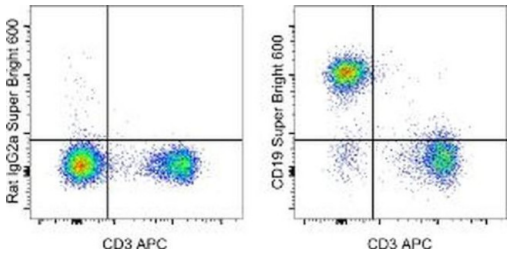
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 2-8°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorochrome performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

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

Please note: We are reviewing Western blot images included in the antibody testing data in our catalog, including those provided by third parties. Unless expressly labeled or annotated as "raw-unedited", Western blot images included in the antibody testing data in our catalog may have been edited, optimized or otherwise adjusted for presentation.

Product Images For CD19 Monoclonal Antibody (eBio1D3 (1D3)), Super Bright™ 600, eBioscience™



CD19 Antibody (63-0193-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD3 APC (Product # 17-0032-82) and 0.25 µg of Rat IgG2a K Isotype Control Super Bright 600 (Product # 63-4321-82) (left) or 0.25 µg of Anti-Mouse CD19 Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

54 References

Immunohistochemistry (1)

MedComm

Year
2022

Single-cell transcriptomics reveals distinct cell response between acute and chronic pulmonary infection of Pseudomonas aeruginosa.

"Published figure using CD19 monoclonal antibody (Product # 63-0193-82) in Immunohistochemistry"

Authors: Hu X, Wu M, Ma T, Zhang Y, Zou C, Wang R, Zhang Y, Ren Y, Li Q, Liu H, Li H, Wang T, Sun X, Yang Y, Tang M, Li X, Li J, Gao X, Li T, Zhou X

Flow Cytometry (53)

Cells

Year
2023

Cissus quadrangularis (Hadjod) Inhibits RANKL-Induced Osteoclastogenesis and Augments Bone Health in an Estrogen-Deficient Preclinical Model of Osteoporosis Via Modulating the Host Osteoimmune System.

"Published figure using CD19 monoclonal antibody (Product # 63-0193-82) in Flow Cytometry"

Authors: Azam Z, Sapra L, Baghel K, Sinha N, Gupta RK, Soni V, Saini C, Mishra PK, Srivastava RK

Investigative ophthalmology & visual science

Year
2023

Role of FGF10/FGFR2b Signaling in Homeostasis and Regeneration of Adult Lacrimal Gland and Corneal Epithelium Proliferation.

"Published figure using CD19 monoclonal antibody (Product # 63-0193-82) in Flow Cytometry"

Authors: Finburgh EN, Mauduit O, Noguchi T, Bu JJ, Abbas AA, Hakim DF, Bellusci S, Meech R, Makarenkova HP, Afshari NA

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

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