

# 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
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<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.

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.

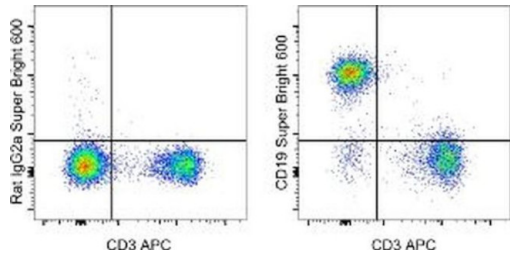
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

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.

**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.

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Immunohistochemistry (1)

MedComm	Year 2022
<b>Single-cell transcriptomics reveals distinct cell response between acute and chronic pulmonary infection of <i>Pseudomonas aeruginosa</i>.</b>	
"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
<b><i>Cissus quadrangularis</i> (Hadjod) Inhibits RANKL-Induced Osteoclastogenesis and Augments Bone Health in an Estrogen-Deficient Preclinical Model of Osteoporosis Via Modulating the Host Osteoimmune System.</b>	
"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
<b>Role of FGF10/FGFR2b Signaling in Homeostasis and Regeneration of Adult Lacrimal Gland and Corneal Epithelium Proliferation.</b>	
"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	

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