

# CD19 Monoclonal Antibody (eBio1D3 (1D3)), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio1D3 (1D3)
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_657656

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.25 µg/test	87 Publications
Miscellaneous PubMed (Misc)	-	6 Publications

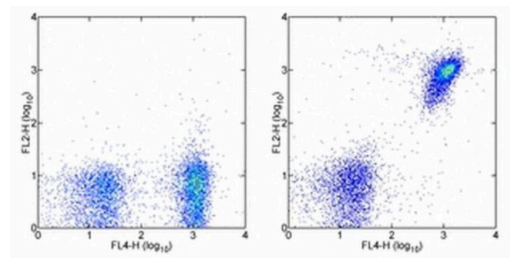
## Product Specific Information

**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 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.



**CD19 Antibody (13-0193-82) in Flow**

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.125 µg of Rat IgG2a K Isotype Control Biotin (Product # 13-4321-82) (left) or 0.125 µg of Anti-Mouse CD19 Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (2)

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 # 13-0193-82) 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	
Journal of immunology (Baltimore, Md. : 1950)	Year 2013
<b>Peyer's patch inducer cells play a leading role in the formation of B and T cell zone architecture.</b>	Species Mouse
"13-0193 was used in Immunohistochemistry to analyse evidence that CD3(-)IL-7R(+) PP inducer cells are involved in the formation of B and T cell zones in neonatal mice."	
Authors: Nakagawa R,Togawa A,Nagasawa T,Nishikawa S	

Flow Cytometry (87)

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 # 13-0193-82) 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 # 13-0193-82) 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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Misc (6)

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