

CD19 Monoclonal Antibody (eBio1D3 (1D3)), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	eBio1D3 (1D3)
Conjugate	Unconjugated
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
RRID	AB_657650

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Flow Cytometry (Flow)	0.5 µg/test	77 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	1 Publication

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, immunoprecipitation, and immunohistology staining of frozen tissue sections. The eBio1D3 monoclonal antibody has also been reported to induce down-regulation of CD19, affecting the proportions of B-1a and B-2 B cells in mice. (Please use Functional Grade purified eBio1D3 (1D3), cat. 16-0193, in functional assays.).

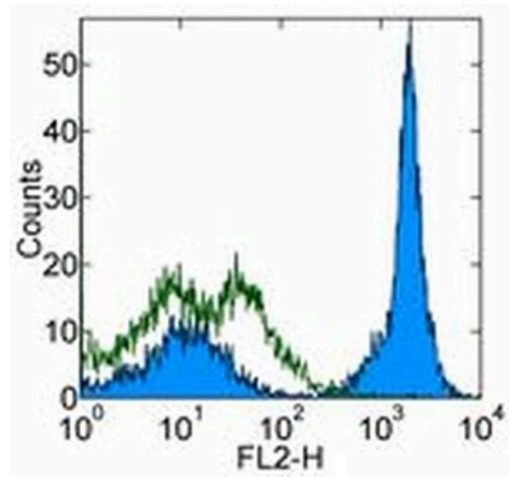
Applications Tested: This eBio1D3 (1D3) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD19 Antibody (14-0193-82) in Flow
Staining of C57Bl/6 splenocytes with 0.25 µg of Rat IgG2a Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.25 µg of Anti-Mouse CD19 Purified) (filled histogram) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

Immunohistochemistry (5)

MedComm	Year 2022
Single-cell transcriptomics reveals distinct cell response between acute and chronic pulmonary infection of <i>Pseudomonas aeruginosa</i>.	
"Published figure using CD19 monoclonal antibody (Product # 14-0193-82) 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	
Human gene therapy	Year 2021
Oncolytic Herpes Simplex Virus Type 2 Can Effectively Inhibit Colorectal Cancer Liver Metastasis by Modulating the Immune Status in the Tumor Microenvironment and Inducing Specific Antitumor Immunity.	Species Mouse
"14-0193 was used in Immunohistochemistry to show that oHSV2 can effectively kill the primary tumour and attack distal and metastatic tumours by inducing immune responses, resulting in lasting antitumour efficacy and preventing tumour recurrence."	
Authors: Zhang W,Zeng B,Hu X,Zou L,Liang J,Song Y,Liu B,Liu S	

View more IHC references on thermofisher.com

Flow Cytometry (77)

Cells	Year 2023
<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.	
"Published figure using CD19 monoclonal antibody (Product # 14-0193-82) 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 # 14-0193-82) 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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More applications with references on thermofisher.com

Misc (1)

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