CD19 Monoclonal Antibody (eBio1D3 (1D3)), PerCP-Cyanine5.5, 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), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio1D3 (1D3)
Conjugate	PerCP-Cyanine5.5
Excitation/Emission Max	489/679 nm
Form	Liquid
Concentration	0.2 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_1106999

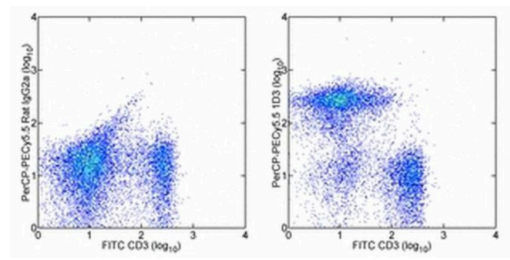| Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	92 Publications

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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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Product Images For CD19 Monoclonal Antibody (eBio1D3 (1D3)), PerCP-Cyanine5.5, eBioscience™

CD19 Antibody (45-0193-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.125 µg of Rat IgG2a K Isotype Control PerCP-Cyanine5-5 (Product # 45-4321-80) (left) or 0.125 µg of Anti-Mouse CD19 PerCP-Cyanine5-5 (right). Cells in the lymphocyte gate were used for analysis.

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Immunocytochemistry (1)

Neurology(R) neuroimmunology & neuroinflammation

CNS accumulation of regulatory B cells is VLA-4-dependent.

"45-0193 was used in Immunocytochemistry to demonstrate that accumulation of Breg in the CNS is dependent on VLA-4."

Authors: Lehmann-Horn K,Sagan SA,Winger RC,Spencer CM,Bernard CC,Sobel RA,Zamvil SS

Year
2016

Species
Mouse

Flow Cytometry (92)

Oncogene

FANCA deficiency promotes leukaemic progression by allowing the emergence of cells carrying oncogenic driver mutations.

"45-0193-82 was used in Flow cytometry/Cell sorting to indicate that loss of the FANC pathway, known to control genetic instability, fosters the expansion of leukaemic cells carrying oncogenic mutations rather than mutation formation."

Authors: Pawlikowska P,Delestré L,Gregoricchio S,Oppezzo A,Esposito M,Diop MB,Rosselli F,Guillouf C

Year
2023

Species
Mouse

Cells

***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.**

"45-0193-82 was used in Flow cytometry/Cell sorting to demonstrate that, in a dose-dependent manner CQ, suppresses the RANKL-induced osteoclastogenesis (p 0.001) as well as inhibiting the osteoclast functional activity (p 0.001) in mouse bone marrow cells (BMCs)."

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

Year
2023

Species
Mouse

View more Flow references on thermofisher.com

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