CD19 Monoclonal Antibody (eBio1D3 (1D3)), PE-eFluor™ 610, 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), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio1D3 (1D3)
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 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_2574536

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	59 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 0.25 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.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochome.

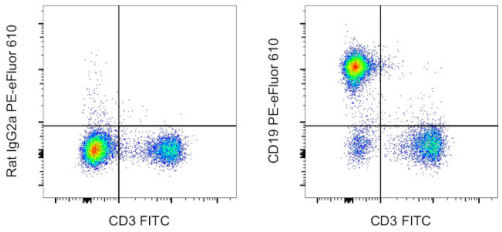
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD19 Monoclonal Antibody (eBio1D3 (1D3)), PE-eFluor™ 610, eBioscience™



CD19 Antibody (61-0193-82) in Flow
BALB/c mouse splenocytes were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0031-82) and 0.125 µg of Rat IgG2a kappa Isotype Control, PE-eFluor 610 (Product # 61-4321-82) (left) or 0.125 µg of CD19 Monoclonal Antibody, PE-eFluor 610 (right). Total cells were used for analysis.

View more figures on thermofisher.com

60 References

Immunocytochemistry (1)

Cell cycle (Georgetown, Tex.)

PLEKHA7 defines an apical junctional complex with cytoskeletal associations and miRNA-mediated growth implications.

"61-0193 was used in Immunocytochemistry-immunoflourescence to further investigate the function and interacting partners of PLEKHA7 at the zonula adherens."

Authors: Kourtidis A,Anastasiadis PZ

Year
2016

Species
Human

Flow Cytometry (59)

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.**

"Published figure using CD19 monoclonal antibody (Product # 61-0193-82) in Flow Cytometry"

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

Year
2023

Investigative ophthalmology & visual science

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

"Published figure using CD19 monoclonal antibody (Product # 61-0193-82) in Flow Cytometry"

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

Year
2023

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