

# 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<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.

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 fluorochoime.

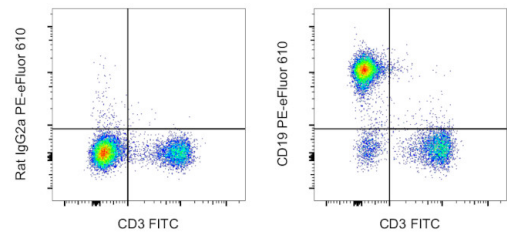
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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](https://thermofisher.com)**

Immunocytochemistry (1)

|  |   |
|--|---|
| <p>Cell cycle (Georgetown, Tex.)</p> <p><b>PLEKHA7 defines an apical junctional complex with cytoskeletal associations and miRNA-mediated growth implications.</b></p> <p>"61-0193 was used in Immunocytochemistry-immunoflourescence to further investigate the function and interacting partners of PLEKHA7 at the zonula adherens."</p> <p>Authors: Kourtidis A,Anastasiadis PZ</p> | <p>Year<br/>2016</p> <p>Species<br/>Human</p> |
|--|---|

Flow Cytometry (59)

|   |                      |
|---|----------------------|
| <p>Cells</p> <p><b>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.</b></p> <p>"Published figure using CD19 monoclonal antibody (Product # 61-0193-82) in Flow Cytometry"</p> <p>Authors: Azam Z,Sapra L,Baghel K,Sinha N,Gupta RK,Soni V,Saini C,Mishra PK,Srivastava RK</p> | <p>Year<br/>2023</p> |
| <p>Investigative ophthalmology &amp; visual science</p> <p><b>Role of FGF10/FGFR2b Signaling in Homeostasis and Regeneration of Adult Lacrimal Gland and Corneal Epithelium Proliferation.</b></p> <p>"Published figure using CD19 monoclonal antibody (Product # 61-0193-82) in Flow Cytometry"</p> <p>Authors: Finburgh EN,Mauduit O,Noguchi T,Bu JJ,Abbas AA,Hakim DF,Bellusci S,Meech R,Makarenkova HP,Afshari NA</p>             | <p>Year<br/>2023</p> |

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.