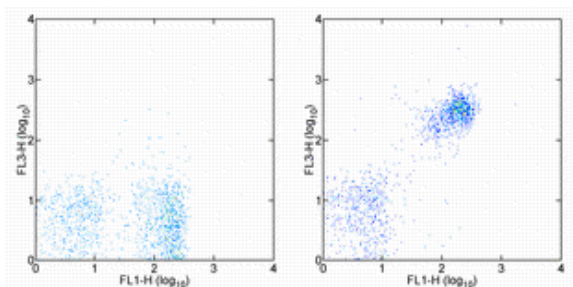


## Anti-Mouse CD19 PE-Cyanine7

**Catalog Number:** 25-0193

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.125 ug of Rat IgG2a K Isotype Control PE-Cyanine7 (cat. 25-4321) (left) or 0.125 ug of Anti-Mouse CD19 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD19 PE-Cyanine7

**REF** **Catalog Number:** 25-0193

**Clone:** eBio1D3 (1D3)

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



**LOT**

**Batch Code:** Refer to Vial

**Use By:**

Refer to Vial



**Caution, contains Azide**

### 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.

**Light sensitivity:** This tandem dye is sensitive 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 uL cell sample + 100 uL 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.

### References

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Inabe K, Kurosaki T. Tyrosine phosphorylation of B-cell adaptor for phosphoinositide 3-kinase is required for Akt activation in response to CD19 engagement. Blood. 2002 Jan 15;99(2):584-9.

Krop I, de Fougères AR, Hardy RR, Allison M, Schlissel MS, Fearon DT. Self-renewal of B-1 lymphocytes is dependent on CD19. Eur J Immunol. 1996 Jan;26(1):238-42. (1D3, FA, PubMed)

Shoham T, Rajapaksa R, Boucheix C, Rubinstein E, Poe JC, Tedder TF, Levy S. The tetraspanin CD81 regulates the expression of CD19 during B cell development in a postendoplasmic reticulum compartment. J Immunol. 2003 Oct 15;171(8):4062-72.

Krop I, Shaffer AL, Fearon DT, Schlissel MS. The signaling activity of murine CD19 is regulated during cell development. J Immunol. 1996 Jul 1;157(1):48-56. (1D3, FC, FA, PubMed)

#### **Related Products**

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

25-0199 Anti-Human CD19 PE-Cyanine7 (HIB19)

25-4321 Rat IgG2a K Isotype Control PE-Cyanine7 (eBR2a)

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