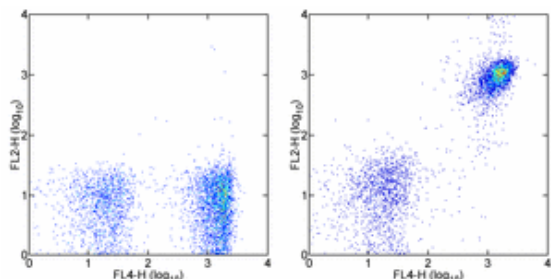


## Anti-Mouse CD19 PE

Catalog Number: 12-0193

RUO: For Research Use Only



Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) APC (cat. 17-0452) and 0.06 µg of Rat IgG2a κ Isotype Control PE (cat. 12-4321) (left) or 0.06 µg of Anti-Mouse CD19 PE (right). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Mouse CD19 PE


**REF** Catalog Number: 12-0193

Clone: eBio1D3 (1D3)

Concentration: 0.2 mg/ml


Host/Isotype: Rat IgG2a, κ

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.

**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 0.125 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.

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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.

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### Related Products

12-0191 Anti-Mouse CD19 PE (MB19-1)

12-0199 Anti-Human CD19 PE (HIB19)

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