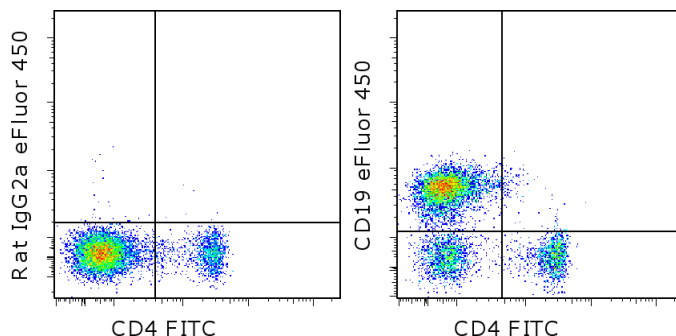


Anti-Mouse CD19 eFluor[®] 450

Catalog Number: 48-0193

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



Staining of C57BL/6 splenocytes with Anti-Mouse CD4 FITC (cat. 11-0041) and 0.25 ug of Rat IgG2a kappa Isotype Control eFluor[®] 450 (cat. 48-4321) (left) or 0.25 ug of Anti-Mouse CD19 eFluor[®] 450 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD19 eFluor[®] 450
Catalog Number: 48-0193
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.
Batch Code: Refer to vial
Use By: Refer to vial

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 0.5 µg per test. A test is defined as the amount (ug) 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor[®] 450 is a replacement for Pacific Blue[®]. eFluor[®] 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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 Fougerolles 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)

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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

11-0041 Anti-Mouse CD4 FITC (GK1.5)

48-4321 Rat IgG2a K Isotype Control eFluor® 450 (eBR2a)