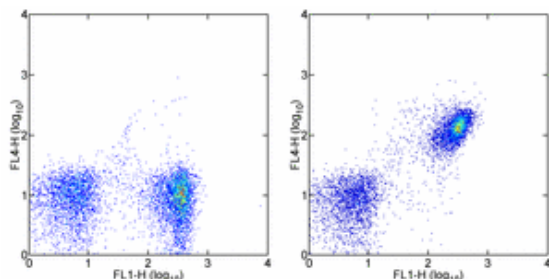


Anti-Mouse CD19 Alexa Fluor® 700

Catalog Number: 56-0193

RUO: For Research Use Only



Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.125 µg of Rat IgG2a κ Isotype Control Alexa Fluor® 700 (cat. 56-4321) (left) or 0.125 µg of Anti-Mouse CD19 Alexa Fluor® 700 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD19 Alexa Fluor® 700

 Catalog Number: 56-0193

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.

 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.

The Alexa Fluor® 700 emits at 723 nm and can be excited with the He-Ne 633 laser. Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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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

56-0199 Anti-Human CD19 Alexa Fluor® 700 (HIB19)

56-4321 Rat IgG2a K Isotype Control Alexa Fluor® 700

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