

Anti-Mouse CD19 eFluor® 605NC

Catalog Number: 93-0193

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



Product Information

Contents: Anti-Mouse CD19 eFluor® 605NC REF Catalog Number: 93-0193 Clone: eBio1D3 (1D3) Concentration: 5 uL Host/Isotype: Rat IgG2a, kappa Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer Temperature Limitation: Store at 2-8°C. Light sensitive

material. This product is guaranteed for 6 months upon receipt when stored properly.

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 pre-titrated and tested by flow cytometric analysis of mouse splenocytes. This can be used at 5 μ L per test. A test is defined as the amount of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

TThe isotype control eFluor 605NC rat IgG2a (cat. 93-4321) should be used at 5 uL/test.

Laser/Filter Recommendation: When using eFluor 605NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 595LP dichroic mirror with the 605/40 bandpass filter. An acceptable alternative is the 610/20 bandpass filter. For instruments not equipped with a violet laser, the eFluor 605NC is also excited by the 488 nm blue laser and can be used as a PE-Texas Red alternative.

Fixation Recommendation: When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 µL of IC Fixation Buffer (cat. 00-8222) and the exposure time 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

For answers about fixation and other questions, please refer to Nanocrystal Frequently Asked Questions or contact eBioscience Technical Support.

References

Cherukuri A, Cheng PC, Pierce SK. The role of the CD19/CD21 complex in B cell processing and presentation of complement-tagged antigens. J Immunol. 2001 Jul 1;167(1):163-72.

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)

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

00-4222 Flow Cytometry Staining Buffer 00-4300 10X RBC Lysis Buffer (Multi-species) 11-0041 Anti-Mouse CD4 FITC (GK1.5) 93-4321 Rat IgG2a K Isotype Control eFluor® 605NC (eBR2a)

Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

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