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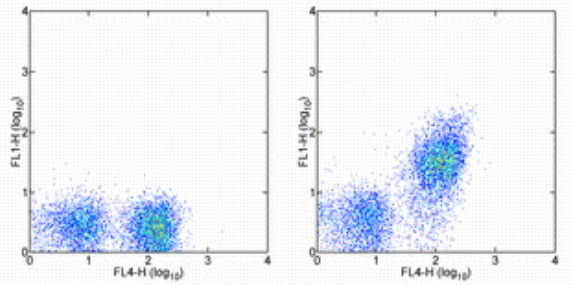
Anti-Mouse CD21/CD35 FITC

Catalog Number: 11-0211
Also Known As: CR2/CR1, C3DR
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) APC (cat. 17-0452) and 0.125 ug of Rat IgG2a KIsotype Control FITC (cat. 11-4321) (left) or 0.125 ug of Anti-Mouse CD21/CD35 FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD21/CD35 FITC
REF Catalog Number: 11-0211
Clone: eBio8D9 (8D9)
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG2a, lambda

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
Contains sodium azide

Description

The monoclonal antibody eBio8D9 reacts with an eptiope shared by mouse CD21 (CR2) and CD35 (CR1). CD21 and CD35 are alternatively spliced transcripts from the *Cr2* gene, which produce cell-surface proteins of 145 and 190 kDa, respectively. CD21 and CD35 are expressed by mature B cells, but not on thymocytes, peripheral T cells, erythrocytes or platelets. Furthermore, there is some evidence which demonstrates their expression on macrophages. CD21 is a receptor for the complement component C3d and Epstein-Barr virus (EBV). In association with CD19 and CD81, CD21 also participates in B-cell activation through the B cell receptor. *Cr2*-deficient mice display impaired inflammatory and humoral immune responses *in vivo*.

The anti-mouse CD21/35 monoclonal antibody clones eBio4E3 and eBio8D9 do not cross-block each other, suggesting that they bind to different epitopes.

Applications Reported

This eBio8D9 (8D9) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio8D9 (8D9) 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 (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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Kozono Y, Abe R, Kozono H, Kelly RG, Azuma T, and Holers VM. 1998. Cross-linking CD21/CD35 or CD19 increases both B7-1 and B7-2 expression on murine splenic B cells. Journal of Immunology. 160: 1565-1572. (8D9, FA, PubMed)

Martin, B.K., and J.H. Weis. Murine macrophages lack expression of the Cr2-145 (CR2) and Cr2-190 (CR1) gene products. Eur. J. Immunol. 993. 23: 3037-3042.

Related Products

11-0212 Anti-Mouse CD21/CD35 FITC (eBio4E3 (4E3))
11-4321 Rat IgG2a K Isotype Control FITC (eBR2a)
17-0452 Anti-Human/Mouse CD45R (B220) APC (RA3-6B2)

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