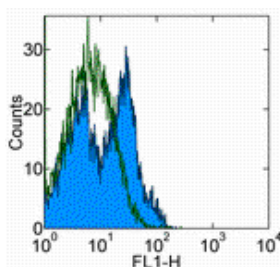


Anti-Mouse CD21/CD35 Purified

Catalog Number: 14-0211

Also Known As: CR2/CR1, C3DR

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



Staining of C57Bl/6 splenocytes with 0.25 ug of Rat IgG2a Isotype Control Purified (cat. 14-4321) (open histogram) or 0.25 ug of Anti-Mouse CD21/CD35 Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. 11-4811). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD21/CD35 Purified

REF Catalog Number: 14-0211

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.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Contains sodium azide

Description

The monoclonal antibody eBio8D9 reacts with an epitope 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 antibody has been reported for use in flow cytometric analysis, and immunoblotting (WB). The eBio8D9 antibody can also be used in functional assays to crosslink CD21/CD35 both to itself and to sIgM. (Please use Functional Grade purified eBio8D9, cat. 16-0211, in functional assays.)

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 10⁵ to 10⁸ 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

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

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