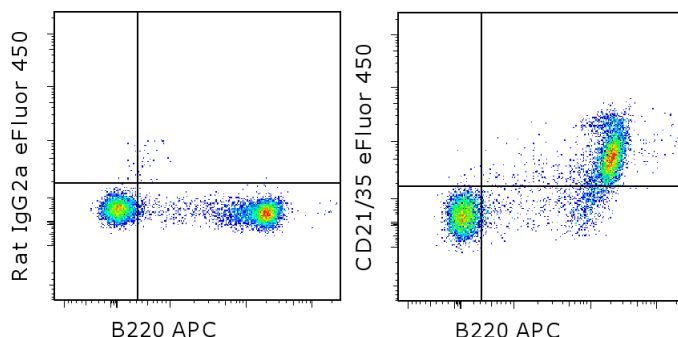


Anti-Mouse CD21/CD35 eFluor® 450

Catalog Number: 48-0212

Also known as: CR2/CR1, C3DR

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



Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (cat. 17-0452) and 0.25 ug of Rat IgG2a kappa Isotype Control eFluor® 450 (cat. 48-4321) (left) or 0.25 ug of Anti-Mouse CD21/CD35 eFluor® 450 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD21/CD35 eFluor® 450



Catalog Number: 48-0212

Clone: eBio4E3 (4E3)

Concentration: 0.2 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.



Batch Code: Refer to vial



Use By: Refer to vial

Description

The monoclonal antibody eBio4E3 reacts with an epitope shared by mouse CD21 (CR2) and CD35 (CR1). CD21 and CD35 are alternatively spliced transcripts from the *Cr2* gene, which result in 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 little evidence which demonstrates their expression on macrophages. CD21 is a receptor for complement component C3d and Epstein-Barr virus (EBV), and 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 eBio4E3 (4E3) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio4E3 (4E3) 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

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. 1993. Murine macrophages lack expression of the Cr2-145 (CR2) and Cr2-190 (CR1)

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gene products. *Eur. J. Immunol.* 23: 3037-3042.

Related Products

17-0452 Anti-Human/Mouse CD45R (B220) APC (RA3-6B2)

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