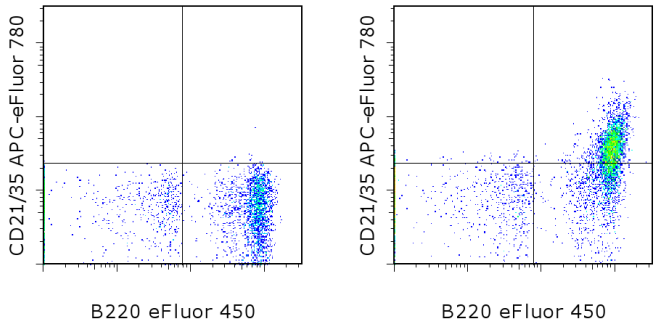
# Anti-Mouse CD21/CD35 APC-eFluor® 780

**Catalog Number:** 47-0211
**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) eFluor® 450 (cat. 48-0452) and 0.25 ug of Rat IgG2a K Isotype Control APC-eFluor® 780 (cat. 47-4321) (left) or 0.25 ug of Anti-Mouse CD21/CD35 APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

## Product Information

**Contents:** Anti-Mouse CD21/CD35 APC-eFluor® 780
REF **Catalog Number:** 47-0211
**Clone:** eBio8D9
**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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.
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 8D9 antibody has been reported for use in flow cytometric analysis.

## Applications Tested

This eBio8D9 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.

**APC-eFluor® emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.**

**Light sensitivity: Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples**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**from light.**

**Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.**

**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**

47-4321 Rat IgG2a K Isotype Control APC-eFluor® 780 (eBR2a)
48-0452 Anti-Human/Mouse CD45R (B220) eFluor® 450 (RA3-6B2)


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