

Anti-Mouse CD21/CD35 PE-Cyanine7

Catalog Number: 25-0211 Also Known As:CR2/CR1, C3DR RUO: For Research Use Only. Not for use in diagnostic procedures.



Product Information

Contents: Anti-Mouse CD21/CD35 PE-Cyanine7 REF Catalog Number: 25-0211 Clone: eBio8D9 (8D9) 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. Lightsensitive material. This tandem dye is sensitive to photoinduced 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 *Cr*2 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. *Cr*2-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 0.125 μ g per test. A test is defined as the amount (μ g) 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples 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.

Related Products

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2) 25-4321 Rat IgG2a K Isotype Control PE-Cyanine7 (eBR2a) 48-0032 Anti-Mouse CD3 eFluor® 450 (17A2)

Legal

FOR NON-COMMERCIAL RESEARCH USE ONLY. NOT FOR THERAPEUTIC OR IN VIVO APPLICATIONS. OTHER USE NEEDS LICENSE FROM GE HEALTHCARE BIO-SCIENCES CORP. UNDER U.S. PATENT FOR NON-COMMERCIAL RESEARCH USE ONLY. NOT FOR THERAPEUTIC OR IN VIVO APPLICATIONS. OTHER USE NEEDS LICENSE FROM GE HEALTHCARE BIO-SCIENCES CORP. UNDER U.S. PATENT # 5,268,486, 5,569,587 AND 5,627,027 AND FOREIGN EQUIVALENTS AND PENDING APPLICATIONS. THIS MATERIAL IS SUBJECT TO PROPRIETARY RIGHTS OF GE HEALTHCARE BIO-SCIENCES CORP. AND CARNEGIE MELLON UNIVERSITY AND MADE AND SOLD UNDER LICENSE FROM GE HEALTHCARE BIO-SCIENCES CORP. AND CARNEGIE MELLON UNIVERSITY AND MADE AND SOLD UNDER LICENSE FROM GE HEALTHCARE BIO-SCIENCES CORP. AND CARNEGIE MELLON UNIVERSITY AND MADE AND SOLD UNDER LICENSE FROM GE HEALTHCARE BIO-SCIENCES CORP. THIS PRODUCT IS LICENSED FOR SALE ONLY FOR RESEARCH. IT IS NOT LICENSED FOR ANY OTHER USE. THERE IS NO IMPLIED LICENSE FREUVDER FOR ANY COMMERCIAL USE. COMMERCIAL USE shall include: 1, sale, lease, license or other transfer of the material or any material derived or produced from it; 3. use of this material to perform services for a fee for third parties. IF YOU REQUIRE A COMMERCIAL LICENSE TO USE THIS MATERIAL AND DO NOT HAVE ONE, RETURN THIS MATERIAL, UNOPENED TO EBIOSCIENCE, INC. 10255 SCIENCE CENTER DRIVE, SAN DIEGO, CALIFORNIA 92121 USA AND ANY MONEY PAID FOR THE MATERIAL AND DO NOT HAVE ONE, RETURN THIS MATERIAL, UNOPENED TO EBIOSCIENCE, INC. 10255 SCIENCE CENTER DRIVE, SAN DIEGO, CALIFORNIA 92121 USA AND ANY MONEY PAID FOR THE MATERIAL MULL BE REFLINDED. MATERIAL WILL BE REFUNDED.

> Not for further distribution without written consent. Copyright © 2000-2012 eBioscience, Inc. Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com