CD21/CD35 Monoclonal Antibody (eBio8D9 (8D9)), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, lambda
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio8D9 (8D9)
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465588

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	11 Publications

Product Specific Information

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.

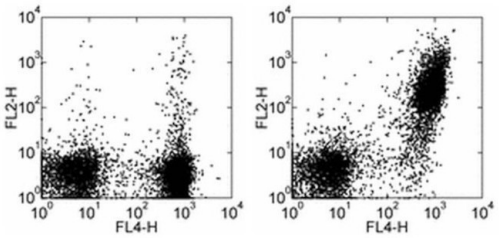
Applications Reported: This 4E3 antibody has been reported for use in flow cytometric analysis.

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 0.25 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD21/CD35 Monoclonal Antibody (eBio8D9 (8D9)), PE, eBioscience™



CD21/CD35 Antibody (12-0211-82) in Flow
Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.125 µg of Rat IgG2a KIsotype Control PE (Product # 12-4321-80) (left) or 0.125 µg of Anti-Mouse CD21/CD35 PE (right). Cells in the lymphocyte gate were used for analysis.

12 References

Immunohistochemistry (1)

Journal of immunology (Baltimore, Md. : 1950)

Alterations in marginal zone macrophages and marginal zone B cells in old mice.

"12-0211 was used in Immunofluorescence to demonstrate that an anatomical breakdown of the marginal zones occurs in old mice, and show how the loss of MZ macrophages may affect the immune response."

Authors: Birjandi SZ,Ippolito JA,Ramadorai AK,Witte PL

Year 2011

Species Mouse

Flow Cytometry (11)

Frontiers in cardiovascular medicine

Single-Cell Transcriptome Profiles Reveal Fibrocytes as Potential Targets of Cell Therapies for Abdominal Aortic Aneurysm.

"12-0211-82 was used in Flow Cytometry to determine the roles of different vascular and immune cells in abdominal aortic aneurysm formation and pathogenesis."

Authors: Li B,Song X,Guo W,Hou Y,Hu H,Ge W,Fan T,Han Z,Li Z,Yang P,Gao R,Zhao H,Wang J

Year 2021

Species Mouse

Journal of immunology (Baltimore, Md. : 1950)

Loss of IP_3 Receptor-Mediated Ca^{2+} Release in Mouse B Cells Results in Abnormal B Cell Development and Function.

"12-0211 was used in Flow cytometry/Cell sorting to determine the function of 1,4,5-trisphosphate receptor-mediated Ca2+ release in B cells."

Authors: Tang H,Wang H,Lin Q,Fan F,Zhang F,Peng X,Fang X,Liu J,Ouyang K

Year 2017

Species Mouse

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn