# CD21/CD35 Monoclonal Antibody (eBio4E3 (4E3)), PerCPeFluor™ 710, 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), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	eBio4E3 (4E3)
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_10855041

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 μg/test	3 Publications

## **Product Specific Information**

Description: The monoclonal antibody eBio4E3 reacts with an eptiope 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 0.25  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. 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.

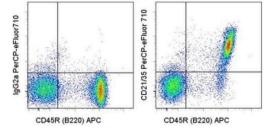
PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

# Product Images For CD21/CD35 Monoclonal Antibody (eBio4E3 (4E3)), PerCP-eFluor™ 710, eBioscience™



#### CD21/CD35 Antibody (46-0212-82) 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 K Isotype Control PerCP-eFluor® 710 (Product # 46-4321-82) (left) or 0.125 µg of Anti-Mouse CD21/CD35 PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

# 3 References

### Flow Cytometry (3)

Frontiers in immunology Estrogen Receptor Alpha Signaling Is Responsible for the Female Sex Bias in the Loss of Tolerance and Immune Cell Activation Induced by the Lupus Susceptibility Locus <i>Sle1b</i> .	<b>Year</b> 2021
"Published figure using CD21/CD35 monoclonal antibody (Product # 46-0212-82) in Flow Cytometry" Authors: Graham JH,Yoachim SD,Gould KA	
Cell reports	Year
Marginal Zone Formation Requires ACKR3 Expression on B Cells.	2020
"46-0212-82 was used in Flow Cytometry to study the expression of atypical chemokine receptor 3 in marginal zone cells within the spleen."	<b>Species</b> Mouse
Authors: Radice E,Ameti R,Melgrati S,Foglierini M,Antonello P,Stahl RAK,Thelen S,Jarrossay D,Thelen M	

View more Flow references on thermofisher.cn

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