

Biotin anti-mouse CD21/CD35 (CR2/CR1) Antibody

Catalog# / Size	123405 / 50 µg 123406 / 500 µg
Clone	7E9
Regulatory Status	RUO
Other Names	CR2/CR1
Isotype	Rat IgG2a, κ
Description	CD21, also known as CR2 (complement receptor 2) and C3d receptor, binds C3d and iC3b. It is also a receptor of Epstein-Barr virus. CD35, also known as CR1, binds C3b, iC3b, C4b, and iC4b. CD21/CD35 is primarily expressed on B lymphocytes, mast cells, follicular dendritic cells, macrophages, and activated granulocytes. CD21/CD35 forms part of the B-cell antigen receptor complex with CD19 and CD81 and is involved in signal transduction.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	CD35/CFA
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application References	<ol style="list-style-type: none"> 1. Boackle S, <i>et al.</i> 2001 <i>Immunity</i> 15:775. 2. de Andres B, <i>et al.</i> 2012. <i>J. Immunol.</i> 189:2300. PubMed 3. Chiu YK, <i>et al.</i> 2014. <i>J Immunol.</i> 193:2207. PubMed 4. Koenig PA, <i>et al.</i> 2014. <i>J Biol Chem.</i> 289:34490. PubMed 5. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:33455-65. (SB) PubMed 6. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> 1. Glaros V, <i>et al.</i> 2021. <i>Immunity.</i> 54:2005. PubMed 2. Choi SY, <i>et al.</i> 2019. <i>J Immunol.</i> 203:2630. PubMed 3. Heesters B, <i>et al.</i> 2015. <i>PLoS Pathog.</i> 11: 1005285. PubMed 4. Kajihara R, <i>et al.</i> 2014. <i>J Immunol.</i> 192:5720. PubMed 5. Yabas M, <i>et al.</i> 2016. <i>PLoS One.</i> 11: 0146774. PubMed 6. Gibb D, <i>et al.</i> 2010. <i>J Exp Med.</i> 207:623. PubMed 7. Rohrbeck L, <i>et al.</i> 2020. <i>Immunol Cell Biol.</i> . PubMed 8. Wang W, <i>et al.</i> 2014. <i>J Immunol.</i> 192:3011. PubMed
RRID	AB_940399 (BioLegend Cat. No. 123405) AB_940401 (BioLegend Cat. No. 123406)

Antigen Details

Structure	145 kD/190 kD type I transmembrane glycoprotein
Distribution	B cells, follicular dendritic cells
Function	Signal transduction
Ligand/Receptor	Associated with CD19/CD81. CD21 binds C3d, iC3b, and EBV; CD35 binds C3b, iC3b, C4b, and iC4b.
Cell Type	B cells, Dendritic cells
Biology Area	Cell Biology, Costimulatory Molecules, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Kozono Y, <i>et al.</i> 1998. <i>J. Immunol.</i> 160:1562. 2. Shimizu I, <i>et al.</i> 2007. <i>Blood</i> 109:1773. 3. Roozendaal R and MC. Carroll. 2007. <i>Immunol. Rev.</i> 219:157.
Gene ID	12902 12946

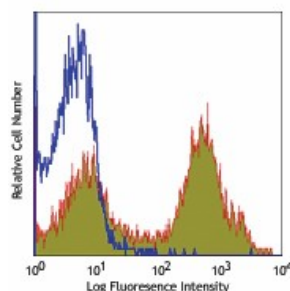
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE/Cyanine7 anti-mouse CD21/CD35 (CR2/CR1), APC/Cyanine7 anti-mouse CD21/CD35 (CR2/CR1), Biotin anti-mouse CD21/CD35 (CR2/CR1), FITC anti-mouse CD21/CD35 (CR2/CR1), PE anti-mouse CD21/CD35 (CR2/CR1), APC anti-mouse CD21/CD35 (CR2/CR1), Pacific Blue™ anti-mouse CD21/CD35 (CR2/CR1), PerCP/Cyanine5.5 anti-mouse CD21/CD35 (CR2/CR1), Brilliant Violet 421™ anti-mouse CD21/CD35 (CR2/CR1), Alexa Fluor® 647 anti-mouse CD21/CD35 (CR2/CR1), Alexa Fluor® 594 anti-mouse CD21/CD35 (CR2/CR1), TotalSeq™-A0107 anti-mouse CD21/CD35 (CR2/CR1), Alexa Fluor® 700 anti-mouse CD21/CD35 (CR2/CR1), APC/Fire™ 750 anti-mouse CD21/CD35 (CR2/CR1), TotalSeq™-C0107 anti-mouse CD21/CD35 (CR2/CR1), Brilliant Violet 711™ anti-mouse CD21/CD35 (CR2/CR1), PE/Dazzle™ 594 anti-mouse CD21/CD35 (CR2/CR1), Brilliant Violet 510™ anti-mouse CD21/CD35 (CR2/CR1), Ultra-LEAF™ Purified anti-mouse CD21/CD35 (CR2/CR1)

Product Data



C57BL/6 mouse splenocytes stained with biotinylated 7E9, followed by Sav-PE

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