

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

Catalog# / Size	123411 / 25 µg 123412 / 100 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 APC under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. 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.
Excitation Laser	Red Laser (633 nm)
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. PubMed3. Chiu YK, <i>et al.</i> 2014. <i>J Immunol.</i> 193:2207. PubMed4. Koenig PA, <i>et al.</i> 2014. <i>J Biol Chem.</i> 289:34490. PubMed5. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:33455-65. (SB) PubMed6. 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. Michela Miani <i>et al.</i> 2018. <i>Cell metabolism.</i> 28(4):557-572 . PubMed2. Chei S, <i>et al.</i> 2020. <i>Front Nutr.</i> 7:583186. PubMed3. Castiello MC, <i>et al.</i> 2020. <i>J Allergy Clin Immunol.</i> . PubMed4. Piper CJM, <i>et al.</i> 2020. <i>Cell Reports.</i> 29(7):1878-1892.e7.. PubMed5. Gómez-Díaz C, <i>et al.</i> 2021. <i>iScience.</i> 24:103241. PubMed6. Petursdottir D, <i>et al.</i> 2017. <i>Front Immunol.</i> . 10.3389/fimmu.2017.01699. PubMed7. Parthasarathy R, <i>et al.</i> 2021. <i>Front Immunol.</i> 12:758407. PubMed8. Sarapulov AV, <i>et al.</i> 2020. <i>Front Immunol.</i> 11:599. PubMed9. Shan M <i>et al.</i> 2018. <i>Immunity.</i> 49(4):709-724 . PubMed10. Yang L, <i>et al.</i> 2021. <i>Cell Death Differ.</i> 28:2616. PubMed11. Liu D <i>et al.</i> 2019. <i>Immunity.</i> 51(1):64-76 . PubMed

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RRID AB_940395 (BioLegend Cat. No. 123411)
 AB_2085160 (BioLegend Cat. No. 123412)

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	<ol style="list-style-type: none"> 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

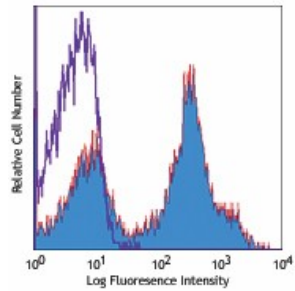
[Cell Surface Flow Cytometry Staining Protocol](#)

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 7E9 APC



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