

## FITC anti-mouse CD21/CD35 (CR2/CR1) Antibody

<b>Catalog# / Size</b>	123407 / 50 µg 123408 / 500 µg
<b>Clone</b>	7E9
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CR2/CR1
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	CD35/CFA
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10 <sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Boackle S, <i>et al.</i> 2001 <i>Immunity</i> 15:775.</li> <li>2. de Andres B, <i>et al.</i> 2012. <i>J. Immunol.</i> 189:2300. <a href="#">PubMed</a></li> <li>3. Chiu YK, <i>et al.</i> 2014. <i>J Immunol.</i> 193:2207. <a href="#">PubMed</a></li> <li>4. Koenig PA, <i>et al.</i> 2014. <i>J Biol Chem.</i> 289:34490. <a href="#">PubMed</a></li> <li>5. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:33455-65. (SB) <a href="#">PubMed</a></li> <li>6. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) <a href="#">PubMed</a></li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Morse M, <i>et al.</i> 2016. <i>Lupus.</i> 25: 81 - 87. <a href="#">PubMed</a></li> <li>2. Chappaz S, <i>et al.</i> 2021. <i>Cell Reports.</i> 36(3):109430. <a href="#">PubMed</a></li> <li>3. Xu J, <i>et al.</i> 2021. <i>Nature.</i> 595:278. <a href="#">PubMed</a></li> <li>4. Yang Y, <i>et al.</i> 2021. <i>Nat Commun.</i> 12:525. <a href="#">PubMed</a></li> <li>5. Uchil PD <i>et al.</i> 2018. <i>Cell host &amp; microbe.</i> 25(1):87-100 . <a href="#">PubMed</a></li> <li>6. Hrdinka M, <i>et al.</i> 2016. <i>PLoS One.</i> 11: 0162863. <a href="#">PubMed</a></li> <li>7. Hamilton J, <i>et al.</i> 2015. <i>J Immunol.</i> 194:5022. <a href="#">PubMed</a></li> <li>8. Li H, <i>et al.</i> 2020. <i>Nature.</i> 584:274. <a href="#">PubMed</a></li> <li>9. Ballesteros I, <i>et al.</i> 2020. <i>Cell.</i> 183(5):1282-1297.e18. <a href="#">PubMed</a></li> <li>10. Maulloo CD, <i>et al.</i> 2021. <i>Front Immunol.</i> 12:714842. <a href="#">PubMed</a></li> <li>11. Xu M, <i>et al.</i> 2013. <i>J Immunol.</i> 190:5436. <a href="#">PubMed</a></li> </ol>

12. Souza SP, *et al.* 2021. PLoS Pathog. 17:e1010081. [PubMed](#)
13. Shiozawa S, *et al.* 2022. iScience. 25:103537. [PubMed](#)
14. Chen RJ, *et al.* 2022. iScience. 25:105595. [PubMed](#)
15. Lu X, *et al.* 2019. Cell Rep. 28:472. [PubMed](#)
16. Hamilton J, *et al.* 2017. J Immunol. 10.4049/jimmunol.1700888. [PubMed](#)
17. Yoshida H, *et al.* 2019. Cell. 176:897. [PubMed](#)
18. Wang J, *et al.* 2020. Cell. 183(7):1867-1883.e26. [PubMed](#)
19. Chauvet S, *et al.* 2016. J Am Soc Nephrol. 27: 1665 - 1677. [PubMed](#)

**RRID** AB\_940403 (BioLegend Cat. No. 123407)  
 AB\_940405 (BioLegend Cat. No. 123408)

## Antigen Details

<b>Structure</b>	145 kD/190 kD type I transmembrane glycoprotein
<b>Distribution</b>	B cells, follicular dendritic cells
<b>Function</b>	Signal transduction
<b>Ligand/Receptor</b>	Associated with CD19/CD81. CD21 binds C3d, iC3b, and EBV; CD35 binds C3b, iC3b, C4b, and iC4b.
<b>Cell Type</b>	B cells, Dendritic cells
<b>Biology Area</b>	Cell Biology, Costimulatory Molecules, Immunology, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Kozono Y, <i>et al.</i> 1998. <i>J. Immunol.</i> 160:1562.</li> <li>2. Shimizu I, <i>et al.</i> 2007. <i>Blood</i> 109:1773.</li> <li>3. Roozendaal R and MC. Carroll. 2007. <i>Immunol. Rev.</i> 219:157.</li> </ol>
<b>Gene ID</b>	<a href="#">12902</a> <a href="#">12946</a>

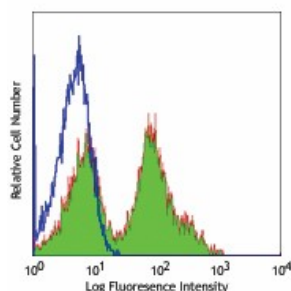
## Related Protocols

[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 FITC

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