

Alexa Fluor[®] 700 anti-mouse CD21/CD35 (CR2/CR1) Antibody

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|--------------------------|--|
| Catalog# / Size | 123431 / 25 µg 123432 / 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

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| 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 Alexa Fluor [®] 700 under optimal conditions. |
| Concentration | 0.5 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 | <p>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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor[®] 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor[®] 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p> |
| Excitation Laser | Red Laser (633 nm) |
| Application References | <ol style="list-style-type: none">Boackle S, <i>et al.</i> 2001 <i>Immunity</i> 15:775.de Andres B, <i>et al.</i> 2012. <i>J. Immunol.</i> 189:2300. PubMedChiu YK, <i>et al.</i> 2014. <i>J Immunol.</i> 193:2207. PubMedKoenig PA, <i>et al.</i> 2014. <i>J Biol Chem.</i> 289:34490. PubMedRadtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:33455-65. (SB) PubMedRadtke 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">Kwok T, <i>et al.</i> 2022. <i>Front Aging.</i> 3:838943. PubMed |

RRID

AB_2860649 (BioLegend Cat. No. 123431)
AB_2860650 (BioLegend Cat. No. 123432)

Antigen Details

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|---------------------------|---|
| 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 |

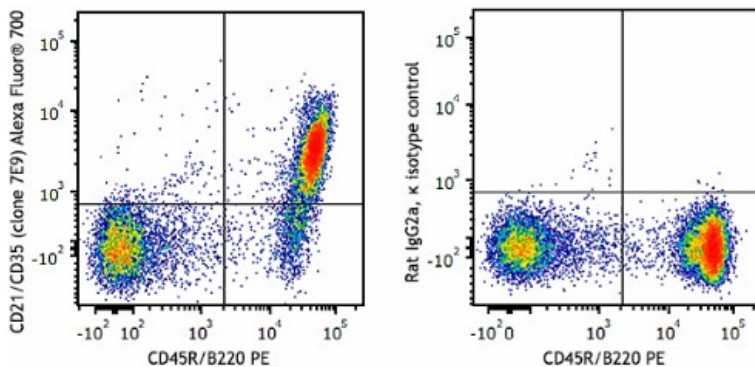
Related Protocols

[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 splenocytes were stained with CD45R/B220 PE and CD21/CD35 (CR2/CR1) (clone 7E9) Alexa Fluor® 700 (left) or rat IgG2a, κ isotype control Alexa Fluor® 700 (right).

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