

Alexa Fluor[®] 700 anti-human CD195 (CCR5) Antibody

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|--------------------------|---|
| Catalog# / Size | 359115 / 25 tests 359116 / 100 tests |
| Clone | J418F1 |
| Regulatory Status | RUO |
| Other Names | C-C chemokine receptor type 5 (CCR5), HIV-1 fusion co-receptor |
| Isotype | Rat IgG2b, κ |
| Description | CD195, also known as CCR5, is a 45 kD G protein-coupled seven transmembrane CC-chemokine receptor. It binds to MIP-1 α , MIP-1 β , and RANTES and is expressed on a subset of T cells and monocytes. CCR5 mediates an intracellular signal thought to induce cell differentiation and proliferation. CCR5 has also been shown to act as a co-receptor for R5 HIV-1 cell entry; modification of CCR5 by sulfation contributes to the efficiency of HIV-1 entry. Studies have shown CCR5 to play a role in a variety of other human diseases, ranging from infectious and inflammatory diseases to cancer. |

Product Details

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| Verified Reactivity | Human |
| Antibody Type | Monoclonal |
| Host Species | Rat |
| Immunogen | Human CCR5 transfectants |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography and conjugated with Alexa Fluor [®] 700 under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| 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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. * 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. Alexa Fluor [®] and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses |
| Excitation Laser | Red Laser (633 nm) |
| Product Citations | 1. Wilson TL, <i>et al.</i> 2022. Cancer Discov. 12:2098. PubMed |
| RRID | AB_2563081 (BioLegend Cat. No. 359115) AB_2563082 (BioLegend Cat. No. 359116) |

Antigen Details

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|---------------------------|---|
| Structure | G-coupled receptor family 1, membrane protein, 45 kD |
| Distribution | Subset of T cells, monocytes |
| Function | Binds C-C chemokines and transduces an intracellular signal thought to result in proliferation and differentiation, acts as a co-receptor with CD4 for HIV-1 |
| Ligand/Receptor | MIP-1 α , MIP-1 β , RANTES |
| Cell Type | Monocytes, T cells |
| Biology Area | Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience |
| Molecular Family | CD Molecules, Cytokine/Chemokine Receptors, GPCR |
| Antigen References | <ol style="list-style-type: none"> 1. Samson M, <i>et al.</i> 1996. <i>Biochemistry</i> 35:3362. 2. Raport CJ, <i>et al.</i> 1996. <i>J. Biol. Chem.</i> 271:17161. 3. Combadiere C, <i>et al.</i> 1996. <i>J. Leukoc. Biol.</i> 60:147. 4. Deng H, <i>et al.</i> 1996. <i>Nature</i> 381:661. 5. Lai J, <i>et al.</i> 2003. <i>CVI.</i> 10:1123. 6. Mañes S, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:1381. 7. Vaday GG, <i>et al.</i> 2006. <i>Prostate</i> 66:124. |
| Gene ID | 1234 |

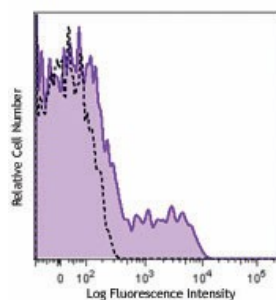
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD195 (CCR5), Alexa Fluor® 488 anti-human CD195 (CCR5), PE anti-human CD195 (CCR5), PE/Cyanine7 anti-human CD195 (CCR5), APC/Cyanine7 anti-human CD195 (CCR5), PerCP/Cyanine5.5 anti-human CD195 (CCR5), Alexa Fluor® 647 anti-human CD195 (CCR5), Alexa Fluor® 700 anti-human CD195 (CCR5), Brilliant Violet 421™ anti-human CD195 (CCR5), FITC anti-human CD195 (CCR5), Pacific Blue™ anti-human CD195 (CCR5), PE/Dazzle™ 594 anti-human CD195 (CCR5), APC anti-human CD195 (CCR5), Brilliant Violet 510™ anti-human CD195 (CCR5), Brilliant Violet 711™ anti-human CD195 (CCR5), APC/Fire™ 750 anti-human CD195 (CCR5), Brilliant Violet 785™ anti-human CD195 (CCR5), TotalSeq™-A0141 anti-human CD195 (CCR5), TotalSeq™-C0141 anti-human CD195 (CCR5), TotalSeq™-B0141 anti-human CD195 (CCR5) Antibody, TotalSeq™-D0141 anti-human CD195 (CCR5), PE/Cyanine5 anti-human CD195 (CCR5)

Product Data



Human peripheral blood lymphocytes were stained with CD195 (clone J418F1) Alexa Fluor® 700 (filled histogram) or rat IgG2b, κ Alexa Fluor® 700 (open histogram).

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