

## APC anti-human CD195 (CCR5) Antibody

<b>Catalog# / Size</b>	359121 / 25 tests 359122 / 100 tests
<b>Clone</b>	J418F1
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	C-C chemokine receptor type 5 (CCR5), HIV-1 fusion co-receptor
<b>Isotype</b>	Rat IgG2b, $\kappa$
<b>Description</b>	CD195, also known as CCR5, is a 45 kD G protein-coupled seven transmembrane CC-chemokine receptor. It binds to MIP-1 $\alpha$ , MIP-1 $\beta$ , 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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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Human CCR5 transfectants
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<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 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Product Citations</b>	<ol style="list-style-type: none"><li>Greenberg J, <i>et al.</i> 2022. JCI Insight. Online ahead of print. <a href="#">PubMed</a></li><li>Nicholas DA <i>et al.</i> 2019. Cell Metab. 30(3):447-461 . <a href="#">PubMed</a></li><li>Maritz MF, <i>et al.</i> 2018. PLoS One. 13:e0196043. <a href="#">PubMed</a></li><li>Souriant S, <i>et al.</i> 2019. Cell Rep. 26:3586. <a href="#">PubMed</a></li><li>Ray RM, <i>et al.</i> 2019. Sci Rep. 9:4334. <a href="#">PubMed</a></li><li>Yin S, <i>et al.</i> 2015. Sci Rep. 5: 14432. <a href="#">PubMed</a></li><li>Rousset F, <i>et al.</i> 2018. Mol Ther Nucleic Acids. 14:351. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2564072 (BioLegend Cat. No. 359121) AB_2564073 (BioLegend Cat. No. 359122)

### Antigen Details

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<b>Structure</b>	G-coupled receptor family 1, membrane protein, 45 kD
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<b>Distribution</b>	Subset of T cells, monocytes
<b>Function</b>	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
<b>Ligand/Receptor</b>	MIP-1 $\alpha$ , MIP-1 $\beta$ , RANTES
<b>Cell Type</b>	Monocytes, T cells
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors, GPCR
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Samson M, <i>et al.</i> 1996. <i>Biochemistry</i> 35:3362.</li> <li>2. Raport CJ, <i>et al.</i> 1996. <i>J. Biol. Chem.</i> 271:17161.</li> <li>3. Combadiere C, <i>et al.</i> 1996. <i>J. Leukoc. Biol.</i> 60:147.</li> <li>4. Deng H, <i>et al.</i> 1996. <i>Nature</i> 381:661.</li> <li>5. Lai J, <i>et al.</i> 2003. <i>CVI.</i> 10:1123.</li> <li>6. Mañes S, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:1381.</li> <li>7. Vaday GG, <i>et al.</i> 2006. <i>Prostate</i> 66:124.</li> </ol>
<b>Gene ID</b>	<a href="#">1234</a>

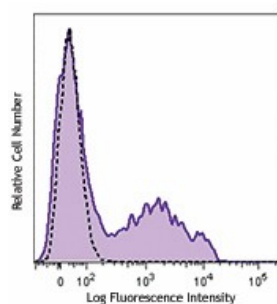
## Related Protocols

[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) APC (filled histogram) or rat IgG2b,  $\kappa$  APC isotype control (open histogram).

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