

## Alexa Fluor® 488 anti-mouse CD195 (CCR5) Antibody

<b>Catalog# / Size</b>	107008 / 100 µg
<b>Clone</b>	HM-CCR5
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CCR5, C-C chemokine receptor type 5, HIV-1 fusion co-receptor
<b>Isotype</b>	Armenian Hamster IgG
<b>Description</b>	CD195 is a 45 kD chemokine receptor also known as CCR5. CD195 is a seven transmembrane-spanning G protein-associated molecule expressed on macrophages, a T cell subset, and in the heart, liver, and spleen. CD195 regulates lymphocyte chemotaxis and transendothelial migration during inflammatory processes. CD195 interacts with several ligands including RANTES, MCP-1, MIP-1α, and MIP-1β.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Armenian Hamster
<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 Alexa Fluor® 488 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>	<p>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 ≤ 1.0 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.</p> <p>* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	CCR5 is expressed at low density on activated cells. For successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 107006) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 107004) or biotinylated anti-Armenian hamster IgG (Cat. No. 405501) second step, followed by SAV-PE (Cat. No. 405204)).
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Mao A, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:5146. (FC) <a href="#">PubMed</a></li><li>2. Ishida Y, <i>et al.</i> 2007. <i>Am J Pathol.</i> 170:843. (FC) <a href="#">PubMed</a></li><li>3. Zeiser Z, <i>et al.</i> 2008. <i>Blood</i> 111:453. (FC) <a href="#">PubMed</a></li><li>4. Sharma R, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:3212 (FC) <a href="#">PubMed</a></li><li>5. Kohlmeier JE, <i>et al.</i> 2008. <i>Immunity.</i> 29:101. (FC) <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. Ishida Y, <i>et al.</i> 2007. <i>Am J Pathol.</i> 170:843. <a href="#">PubMed</a></li><li>2. Panciera T, <i>et al.</i> 2016. <i>Cell Stem Cell.</i> 19:725-737. <a href="#">PubMed</a></li></ol>

RRID

AB\_528756 (BioLegend Cat. No. 107008)

## Antigen Details

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<b>Structure</b>	$\beta$ -chemokine receptor, 45 kD
<b>Distribution</b>	Macrophages, T cell subset, heart, spleen, liver
<b>Function</b>	Lymphocyte chemotaxis and transendothelial migration during inflammation, signaling through seven transmembrane-spanning G proteins
<b>Ligand/Receptor</b>	RANTES, MCP-1, MIP-1 $\alpha$ , and MIP-1 $\beta$
<b>Cell Type</b>	Macrophages, T cells, Dendritic cells
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors, GPCR
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Barclay AN, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press.</li><li>2. Napolitano M, <i>et al.</i> 1990. <i>J. Exp. Med.</i> 172:285.</li><li>3. Meyer A, <i>et al.</i> 1996. <i>J. Biol. Chem.</i> 271:14445.</li><li>4. Boring, <i>et al.</i> 1996. <i>J. Biol. Chem.</i> 271:7551.</li></ol>
<b>Gene ID</b>	<a href="#">12774</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

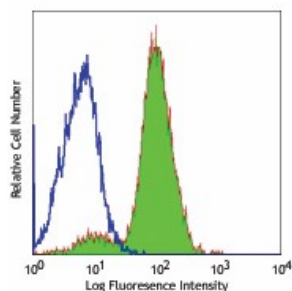
## Other Formats

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Biotin anti-mouse CD195 (CCR5), PE anti-mouse CD195 (CCR5), Alexa Fluor® 488 anti-mouse CD195 (CCR5), Alexa Fluor® 647 anti-mouse CD195 (CCR5), APC anti-mouse CD195 (CCR5), PerCP/Cyanine5.5 anti-mouse CD195 (CCR5), PE/Cyanine7 anti-mouse CD195 (CCR5), TotalSeq™-A0376 anti-mouse CD195 (CCR5)

## Product Data

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Mouse CCR5 transfected cells stained with HM-CCR5 Alexa Fluor® 488

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