

## Biotin anti-mouse CD195 (CCR5) Antibody

<b>Catalog# / Size</b>	107003 / 50 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 biotin 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. <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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<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 SA <sub>v</sub> -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>Product Citations</b>	<ol style="list-style-type: none"><li>1. Janela B, <i>et al.</i> 2019. <i>Immunity.</i> 50:1069. <a href="#">PubMed</a></li><li>2. Grayczyk JP <i>et al.</i> 2017. <i>Cell host &amp; microbe.</i> 22(5):678-687. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_313298 (BioLegend Cat. No. 107003)

### Antigen Details

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<b>Structure</b>	β-chemokine receptor, 45 kD
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<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>	Dendritic cells, Macrophages, T 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>

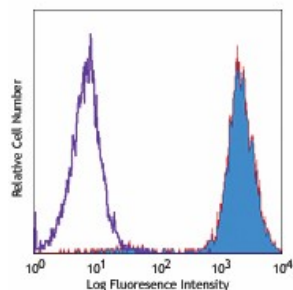
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

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



Mouse CCR5 transfected cells stained with biotinylated HM-CCR5, followed by Sav-PE

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