

## Brilliant Violet 421™ anti-mouse CD192 (CCR2) Antibody

<b>Catalog# / Size</b>	150605 / 50 µg
<b>Clone</b>	SA203G11
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Ccr2, Ckr2, Ccr2a, Ccr2b
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	CD192, also known as CCR2, is a 42 kD G-protein coupled receptor that is associated with bone marrow homeostasis. Specifically, CD192 mediates monocyte chemotaxis and acts as a receptor for monocyte chemoattractant protein 1 (MCP-1). CD192 is primarily expressed on monocytes and macrophages, with some expression on basophils. It is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis and cancer.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Mouse CCR2 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 Brilliant Violet 421™ under optimal conditions.
<b>Concentration</b>	0.2 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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Product Citations</b>	<ol style="list-style-type: none"><li>Hou X, <i>et al.</i> 2020. Cell Reports. 28(1):172-189.e7.. <a href="#">PubMed</a></li><li>Gonalves S, <i>et al.</i> 2021. Cell Reports. 34(11):108860. <a href="#">PubMed</a></li><li>Ferrere G, <i>et al.</i> 2021. JCI Insight. 6:. <a href="#">PubMed</a></li><li>Yang F, <i>et al.</i> 2020. Cancer Res. 80:3677. <a href="#">PubMed</a></li><li>Yao Y, <i>et al.</i> 2018. Cell. 175:1634. <a href="#">PubMed</a></li><li>Monaghan KL, <i>et al.</i> 2020. J Vis Exp. . <a href="#">PubMed</a></li><li>Jung SH, <i>et al.</i> 2022. Nat Commun. 13:4580. <a href="#">PubMed</a></li><li>Wong NR, <i>et al.</i> 2021. Immunity. 54:2072. <a href="#">PubMed</a></li></ol>

9. Di Pilato M, *et al.* 2021. *Cell*. 184(17):4512-4530.e22. [PubMed](#)
10. Gong P, *et al.* 2022. *Cell Death Discov.* 8:466. [PubMed](#)
11. Sharma R, *et al.* 2021. *J Neuroinflammation.* 72:18. [PubMed](#)
12. Bosteels C, *et al.* 2020. *Immunity.* 52(6):1039-1056.e9.. [PubMed](#)

**RRID** AB\_2571913 (BioLegend Cat. No. 150605)

## Antigen Details

<b>Structure</b>	G-protein-coupled receptor, 7-transmembrane protein, 42 kD.
<b>Distribution</b>	Monocytes/macrophages and basophils.
<b>Function</b>	Mediator of monocyte chemotaxis and bone marrow homeostasis.
<b>Ligand/Receptor</b>	MCP-1, Ccl2, Ccl7, and Ccl13.
<b>Cell Type</b>	Basophils, Macrophages, Monocytes
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors, GPCR
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Mack M, <i>et al.</i> 2001. <i>J. Immunol.</i> 166:4697.</li> <li>2. Dutta P, <i>et al.</i> 2015. <i>Cell Stem Cell.</i> 16:477.</li> <li>3. Li L, <i>et al.</i> 2008. <i>Kidney Int.</i> 74:1526.</li> </ol>
<b>Gene ID</b>	<a href="#">12772</a>

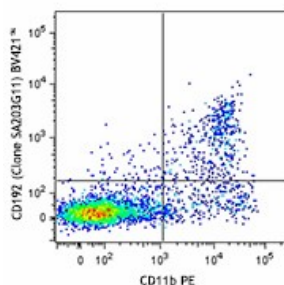
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

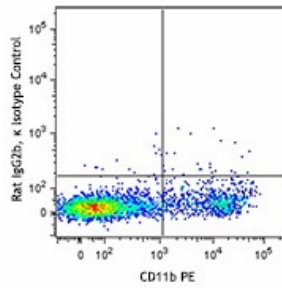
## Other Formats

Alexa Fluor® 647 anti-mouse CD192 (CCR2), Brilliant Violet 421™ anti-mouse CD192 (CCR2), PE anti-mouse CD192 (CCR2), PE/Cyanine7 anti-mouse CD192 (CCR2), FITC anti-mouse CD192 (CCR2), Brilliant Violet 605™ anti-mouse CD192 (CCR2), Brilliant Violet 650™ anti-mouse CD192 (CCR2), Brilliant Violet 785™ anti-mouse CD192 (CCR2), Brilliant Violet 510™ anti-mouse CD192 (CCR2), Biotin anti-mouse CD192 (CCR2), TotalSeq™-A0426 anti-mouse CD192 (CCR2), APC anti-mouse CD192 (CCR2), APC/Fire™ 750 anti-mouse CD192 (CCR2), TotalSeq™-B0426 anti-mouse CD192 (CCR2), TotalSeq™-C0426 anti-mouse CD192 (CCR2), PE/Cyanine5 anti-mouse CD192 (CCR2), PE/Dazzle™ 594 anti-mouse CD192 (CCR2), PE/Fire™ 640 anti-mouse CD192 (CCR2)

## Product Data



C57BL/6 bone marrow was stained with Ly-6G APC/Cy7, CD11b PE, and CD192 (clone SA203G11) Brilliant Violet 421™ (top) or rat IgG2b, κ Brilliant Violet 421™ isotype control (bottom). Dot plots are gated on Ly-6G<sup>+</sup> cells.



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