

## Brilliant Violet 650™ anti-human CD183 (CXCR3) Antibody

<b>Catalog# / Size</b>	353729 / 25 tests 353730 / 100 tests
<b>Clone</b>	G025H7
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CXCR3, G protein-coupled receptor 9 (GPR9), CKR-L2
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	Human CXCR3, also known as GPR9, is a chemokine receptor that binds CXCL9, CXCL10, and CXCL11. It is a 38 kD seven-pass transmembrane receptor coupled to G-protein. CXCR3 is highly expressed by T cells (Th1), natural killer cells (NK cells), dendritic cells, mast cells, alveolar macrophages, eosinophils, and human airway epithelial cells. CXCR3 is important for effector lymphocyte recruitment into inflamed tissue in various inflammatory and autoimmune diseases, such as chronically inflamed liver, Crohn's disease, rheumatoid arthritis, multiple sclerosis, and inflammatory skin diseases.

### Product Details

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<b>Verified Reactivity</b>	Human, Cynomolgus, Rhesus
<b>Reported Reactivity</b>	African Green, Baboon
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human CXCR3 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 650™ 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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.  Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. <b>Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.</b> Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.  <a href="#">Learn more about Brilliant Violet™.</a>
<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Product Citations</b>	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.

1. Kenderes KJ, *et al.* 2018. *Cell Rep.* 24:824. [PubMed](#)
2. Kreutmair S, *et al.* 2021. *Immunity.* . [PubMed](#)
3. Den Braanker H, *et al.* 2021. *Front Immunol.* 12:768113. [PubMed](#)
4. Mudd PA, *et al.* 2022. *Cell.* 185:603. [PubMed](#)

**RRID** AB\_2562628 (BioLegend Cat. No. 353729)  
 AB\_2563870 (BioLegend Cat. No. 353730)

## Antigen Details

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<b>Structure</b>	CXC-chemokine receptor, G protein-coupled receptor, seven-pass transmembrane receptor
<b>Distribution</b>	T cell subset, NK cells, plasmacytoid dendritic cells, GM-CSF activated CD34 <sup>+</sup> hematopoietic progenitors, mast cells, alveolar macrophages, eosinophils, and airway epithelial cells
<b>Function</b>	Essential in T cell recruitment to sites of inflammation
<b>Ligand/Receptor</b>	CXCL9, CXCL10, and CXCL11
<b>Cell Type</b>	Dendritic cells, Eosinophils, Epithelial cells, Hematopoietic stem and progenitors, Macrophages, Mast cells, NK cells, T cells, Tregs
<b>Biology Area</b>	Cell Biology, Immunology, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors, GPCR
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Loetscher M, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 184:963.</li> <li>2. Cole KE, <i>et al.</i> 1998. <i>J. Exp. Med.</i> 187:2009.</li> <li>3. Aksoy MO, <i>et al.</i> 2006. <i>Am. J. Physiol. Lung Cell Mol. Physiol.</i> 290:L909.</li> <li>4. Curbishley SM, <i>et al.</i> 2005. <i>Am. J. Pathol.</i> 167:887.</li> <li>5. Turner JE, <i>et al.</i> 2007. <i>Mini. Rev. Med. Chem.</i> 7:1089.</li> <li>6. Wenzel J, <i>et al.</i> 2008. <i>J. Invest. Dermatol.</i> 128:67.</li> </ol>
<b>Gene ID</b>	<a href="#">2833</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

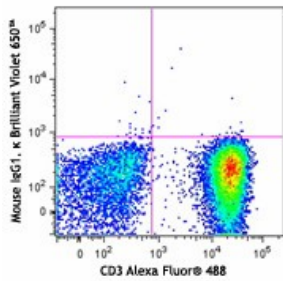
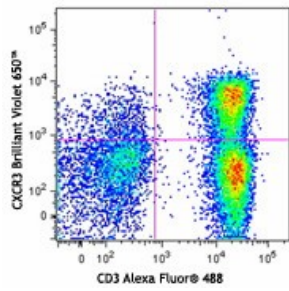
## Other Formats

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Purified anti-human CD183 (CXCR3), APC/Cyanine7 anti-human CD183 (CXCR3), FITC anti-human CD183 (CXCR3), PE anti-human CD183 (CXCR3), APC anti-human CD183 (CXCR3), Alexa Fluor® 488 anti-human CD183 (CXCR3), Alexa Fluor® 647 anti-human CD183 (CXCR3), PerCP/Cyanine5.5 anti-human CD183 (CXCR3), Brilliant Violet 421™ anti-human CD183 (CXCR3), PE/Cyanine7 anti-human CD183 (CXCR3), Pacific Blue™ anti-human CD183 (CXCR3), Brilliant Violet 510™ anti-human CD183 (CXCR3), Brilliant Violet 605™ anti-human CD183 (CXCR3), Brilliant Violet 650™ anti-human CD183 (CXCR3), Brilliant Violet 711™ anti-human CD183 (CXCR3), Purified anti-human CD183 (CXCR3) (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD183 (CXCR3), PerCP anti-human CD183 (CXCR3), Brilliant Violet 785™ anti-human CD183 (CXCR3), Alexa Fluor® 700 anti-human CD183 (CXCR3), Biotin anti-human CD183 (CXCR3), TotalSeq™-A0140 anti-human CD183 (CXCR3), TotalSeq™-C0140 anti-human CD183 (CXCR3), Ultra-LEAF™ Purified anti-human CD183 (CXCR3), TotalSeq™-B0140 anti-human CD183 (CXCR3), APC/Fire™ 750 anti-human CD183 (CXCR3), TotalSeq™-D0140 anti-human CD183 (CXCR3), PE/Fire™ 810 anti-human CD183 (CXCR3) Antibody, APC/Fire™ 810 anti-human CD183 (CXCR3) Antibody, PE/Cyanine5 anti-human CD183 (CXCR3) Antibody, PE/Fire™ 640 anti-human CD183 (CXCR3)

## Product Data

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587