

Brilliant Violet 510™ anti-human CD183 (CXCR3) Antibody

Catalog# / Size	353725 / 25 tests 353726 / 100 tests
Clone	G025H7
Regulatory Status	RUO
Other Names	CXCR3, G protein-coupled receptor 9 (GPR9), CKR-L2
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human, Cynomolgus, Rhesus
Reported Reactivity	African Green, Baboon
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human CXCR3 transfectants
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. 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.</p> <p>Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</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>
Excitation Laser	Violet Laser (405 nm)
Product Citations	

1. Brito-Pérez Y, *et al.* 2021. *Immun Inflamm Dis.* 9:1541. [PubMed](#)
2. Keustermans G, *et al.* 2017. *PLoS One.* 10.1371/journal.pone.0187068. [PubMed](#)
3. Shalekoff S, *et al.* 2021. *Front Pediatr.* 9:618191. [PubMed](#)
4. Bonifacius A, *et al.* 2021. *Immunity.* 54(2):340-354.e6. [PubMed](#)
5. Wild K, *et al.* 2021. *Nat Commun.* 12:6720. [PubMed](#)
6. Gordon-Alonso M, *et al.* 2017. *Nat. Commun.* 10.1038/s41467-017-00925-6. [PubMed](#)
7. Idorn M, *et al.* 2018. *Oncoimmunology.* 7:e1412029. [PubMed](#)
8. Oberhardt V, *et al.* 2021. *Nature.* 597:268. [PubMed](#)
9. Shuwa HA, *et al.* 2021. *Med.* 2(6):720-735.e4. [PubMed](#)
10. Lederer K, *et al.* 2022. *Cell.* [PubMed](#)
11. Tan S, *et al.* 2020. *J Thromb Haemost.* 2685:18. [PubMed](#)

RRID AB_2562066 (BioLegend Cat. No. 353725)
 AB_2563642 (BioLegend Cat. No. 353726)

Antigen Details

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

Related Protocols

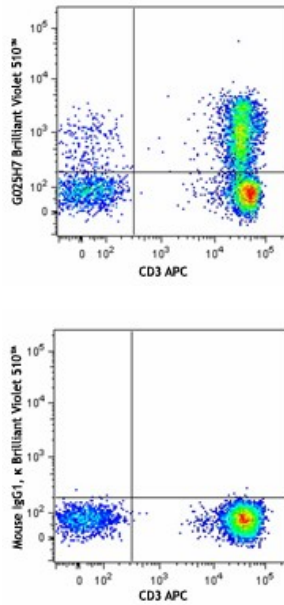
[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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

Human peripheral blood lymphocytes were stained with CD3 APC and CXCR3 (clone G025H7) Brilliant Violet 510™ (top) or mouse IgG1, κ Brilliant Violet 510™ isotype control (bottom).



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