

## Brilliant Violet 785™ anti-human CD184 (CXCR4) Recombinant Antibody

<b>Catalog# / Size</b>	304511 / 25 tests 304512 / 100 tests
<b>Clone</b>	QA18A64
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CXCR4, Fusin
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD184, also known as fusin or CXCR4, is a 45 kD seven transmembrane G-protein-linked CXC chemokine receptor. CD184 is widely expressed on blood and tissue cells, including B and T cells, monocytes, macrophages, dendritic cells, granulocytes, megakaryocytes/platelets, lymphoid, myeloid precursor cells, endothelial cells, epithelial cells, astrocytes, and neurons, among other tissue cells. CD184 is the receptor for CXC chemokine SDF-1, mediates blood cell migration, and is involved in B lymphopoiesis and myelopoiesis, cardiogenesis, blood vessel formation, and cerebellar development. CXCR4 is also a coreceptor of X4 HIV-1 and an alternative receptor for some isolates of HIV-2.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Recombinant
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human CXCR4 transfected cells
<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 785™ under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<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. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 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 785™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Application Notes</b>	This recombinant antibody clone is derived from clone S17017A.
<b>RRID</b>	AB_3683312 (BioLegend Cat. No. 304511) AB_3683312 (BioLegend Cat. No. 304512)

## Antigen Details

<b>Structure</b>	Rhodopsin family, G-protein linked seven transmembrane glycoprotein, 45 kD
<b>Distribution</b>	T cells and B cells, dendritic cells, monocytes, granulocytes, hematopoietic progenitors, endothelial cells
<b>Function</b>	B lymphopoiesis and myelopoiesis, cardiogenesis, blood vessel formation, cerebellar development
<b>Ligand/Receptor</b>	SDF-1 receptor, coreceptor for X4 HIV-1
<b>Cell Type</b>	B cells, Dendritic cells, Endothelial cells, Granulocytes, Hematopoietic stem and progenitors, Mesenchymal cells, Monocytes, Neural Stem Cells, T cells, Tregs
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience, Neuroscience Cell Markers, Stem Cells
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors, GPCR
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>Berger EA, <i>et al.</i> 1999. <i>Annu Rev Immunol.</i> 17:657-700.</li> <li>Loetscher P, <i>et al.</i> 2000. <i>Adv Immunol.</i> 74:127-80.</li> <li>Murphy PM, <i>et al.</i> 2000. <i>Pharmacol Rev.</i> 52:145-76.</li> </ol>
<b>Gene ID</b>	<a href="#">7852</a>

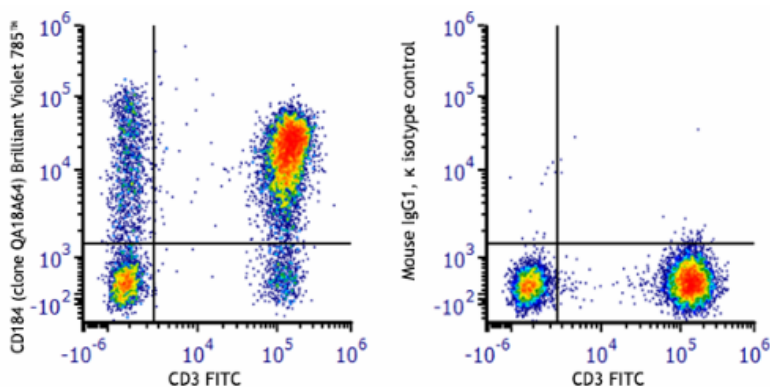
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

PE anti-human CD184 (CXCR4) Recombinant Antibody, Purified anti-human CD184 (CXCR4) Recombinant Antibody, Brilliant Violet 421™ anti-human CD184 (CXCR4) Recombinant Antibody, Brilliant Violet 605™ anti-human CD184 (CXCR4) Recombinant Antibody, Brilliant Violet 711™ anti-human CD184 (CXCR4) Recombinant Antibody, Brilliant Violet 785™ anti-human CD184 (CXCR4) Recombinant Antibody, PerCP/Cyanine5.5 anti-human CD184 (CXCR4) Recombinant Antibody

## Product Data



Human peripheral blood lymphocytes stained with anti-human CD3 (clone UCHT1) FITC and anti-human CD184 (CXCR4) recombinant (clone QA18A64) Brilliant Violet 785™ (left) or mouse IgG1, κ Brilliant Violet 785™ isotype control (right).

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