

Brilliant Violet 605™ anti-human CD184 (CXCR4) Recombinant Antibody

Catalog# / Size	304507 / 25 tests 304508 / 100 tests
Clone	QA18A64
Regulatory Status	RUO
Other Names	CXCR4, Fusin
Isotype	Mouse IgG1, κ
Description	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

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

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.

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

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Excitation Laser	Violet Laser (405 nm)
Application Notes	This recombinant antibody clone is derived from clone S17017A.
RRID	AB_3683310 (BioLegend Cat. No. 304507) AB_3683310 (BioLegend Cat. No. 304508)

Antigen Details

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

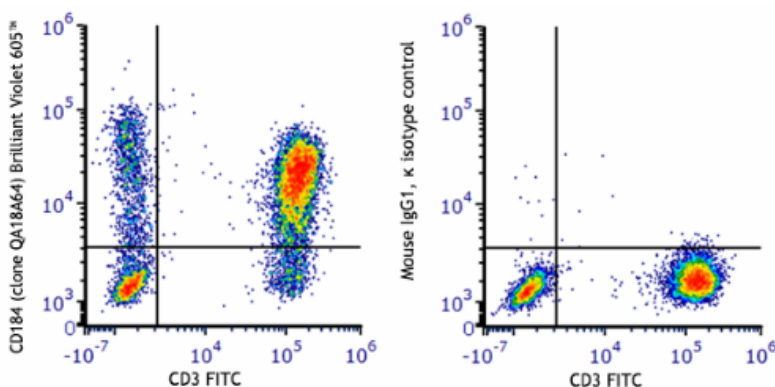
Related Protocols

- [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 605™ (left) or mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

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