

PerCP/Cyanine5.5 anti-human CD184 (CXCR4) Recombinant Antibody

Catalog# / Size	304513 / 25 tests 304514 / 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 PerCP/Cyanine5.5 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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	This recombinant antibody clone is derived from clone S17017A.
RRID	AB_3717204 (BioLegend Cat. No. 304513) AB_3717204 (BioLegend Cat. No. 304514)

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	- 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

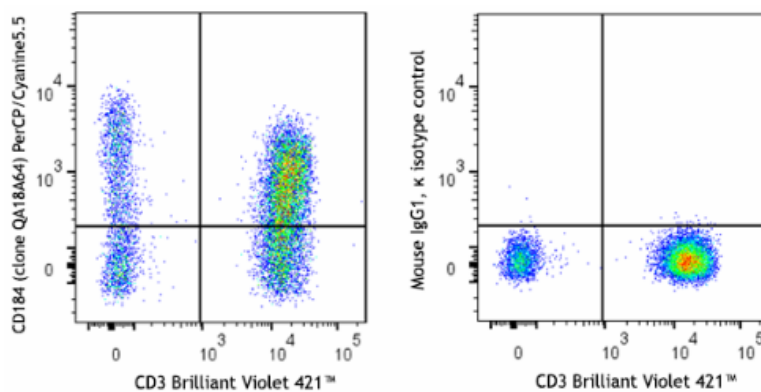
Related Protocols

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

Other Formats

Purified 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, APC/Cyanine7 anti-human CD184 (CXCR4) Recombinant Antibody, PE anti-human CD184 (CXCR4) Recombinant Antibody, Brilliant Violet 421™ anti-human CD184 (CXCR4) Recombinant Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Brilliant Violet 421™ and anti-human CD184 (CXCR4) recombinate (clone QA18A64) PerCP/Cyanine5.5 (left) or mouse IgG1, κ PerCP/Cyanine5.5 isotype control (right).

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