

## PE anti-mouse CD184 (CXCR4) Recombinant Antibody

<b>Catalog# / Size</b>	153805 / 25 µg 153806 / 100 µg
<b>Clone</b>	QA16A08
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Fusin, LESTR, Sdf1r, Cmkar4, PB-CKR, PBSF/SDF-1
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD184, also known as CXCR4, is a member of the G protein coupled receptor family that binds CXCL12 (SDF1). CXCR4 and CXCL12 play an important role in immune and inflammatory responses through the regulation of cell migration and growth. CXCR4 plays a crucial role in the pathogenesis of several autoimmune diseases such as atherosclerosis, rheumatoid arthritis, and wound healing. In addition, CXCR4 is the cofactor for fusion and entry of the T cell-tropic form of HIV-1.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Recombinant
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Mouse CXCR4-transfected cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	This recombinant antibody clone is derived from clone L276F12.
<b>Product Citations</b>	1. Purvis GSD, <i>et al.</i> 2022. Br J Pharmacol. 179:2754. <a href="#">PubMed</a>
<b>RRID</b>	AB_2734225 (BioLegend Cat. No. 153805) AB_2734226 (BioLegend Cat. No. 153806)

### Antigen Details

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<b>Structure</b>	G-protein-coupled seven transmembrane receptor, 39.7 kD
<b>Distribution</b>	T lymphocytes, monocytes, macrophages, tissue-committed stem/progenitor cells (TCSCs), mast cells, vascular smooth muscle cells (VSMCs)

<b>Function</b>	Development of cardiovascular and central nervous system, hematopoiesis, and colonization of BM by fetal liver-derived hematopoietic stem cells (HSCs) during embryogenesis, homing and egress of CD34 <sup>+</sup> CXCR4 <sup>+</sup> progenitor cells from bone marrow, and their migration into peripheral tissues. Critical role in homing of cancer cells to specific metastatic sites. Possible role in the ubiquitin proteasome system.
<b>Interaction</b>	Robo -1
<b>Ligand/Receptor</b>	CXCL12 (SDF-1)
<b>Cell Type</b>	Macrophages, Mast cells, Monocytes, T cells
<b>Biology Area</b>	Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors, GPCR
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. McDermott DH, <i>et al.</i> 2015. <i>Cell</i>. 160:686</li> <li>2. Beck TC, <i>et al.</i> 2014. <i>J Exp Med</i>. 211:2567</li> <li>3. Ding BS, <i>et al.</i> 2014. <i>Nature</i>. 505:97</li> <li>4. Balabanian K, <i>et al.</i> 2012. <i>Blood</i>. 119:5722</li> </ol>
<b>Gene ID</b>	<a href="#">12767</a>

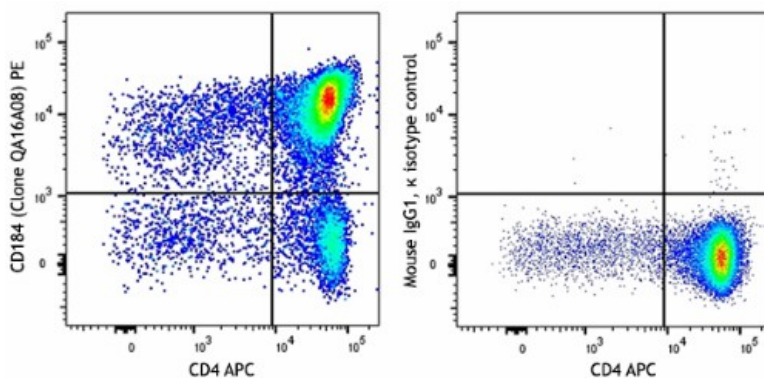
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

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## Product Data



C57BL/6 mouse thymocytes were stained with CD4 APC and CXCR4 (clone QA16A08) PE (left) or Mouse IgG1, κ PE isotype control (right).

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