

Alexa Fluor® 488 anti-mouse CD183 (CXCR3) Antibody

Catalog# / Size	126541 / 25 µg 126542 / 100 µg
Clone	CXCR3-173
Regulatory Status	RUO
Other Names	CXCR3, G protein-coupled receptor 9 (GPR9), CKR-L2, IP10 receptor (IP10-R), Mig receptor (Mig-R)
Isotype	Armenian Hamster IgG
Description	CD183, also known as CXCR3, is a member of the C-X-C chemokine family, characterized by a pair of cysteine residues separated by a single amino acid. CXCR3 is a 38 kD seven pass transmembrane receptor coupled to G-protein. It mediates Ca ²⁺ mobilization and chemotaxis in response to C-X-C chemokines, such as IP10 (CXCL10), MIG (CXCL9), I-TAC (CXCL11) and PF4 (CXCL4). CXCR3 is expressed primarily on activated T lymphocytes, NK cells, and some epithelial cells and endothelial cells. It is not expressed on B cells, monocytes, or granulocytes.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	Mouse N-terminus of CXCR3
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Concentration	0.5 mg/ml
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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Blue Laser (488 nm)
Application Notes	Clone CXCR3-173 does not work for Western blotting. ⁷ For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 126526) with endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered.
Application References	<ol style="list-style-type: none"> 1. Krug A, <i>et al.</i> 2002. <i>J. Immunol.</i> 169:6079. 2. McAleer JP, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:5322. PubMed 3. Sharma R. 2009. <i>J. Immunol.</i> 183:3212. (FC) PubMed 4. Barbi J, <i>et al.</i> 2009. <i>FASEB J.</i> 23:3990. PubMed 5. Kimpfler S, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:6330. PubMed 6. Dürr C, <i>et al.</i> 2010. <i>Cancer Res.</i> 70:10170. (Block) PubMed 7. Uppaluri R, <i>et al.</i> 2008. <i>Transplantation</i> 86:137.
(PubMed link indicates BioLegend citation)	

RRID

AB_2650831 (BioLegend Cat. No. 126541)
AB_2650832 (BioLegend Cat. No. 126542)

Antigen Details

Distribution	T cells, plasmacytoid dendritic cells, GM-CSF activated CD34 ⁺ hematopoietic progenitors
Function	Essential in T cell recruitment to sites of inflammation
Cell Type	Dendritic cells, Hematopoietic stem and progenitors, T cells
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors, GPCR
Gene ID	12766

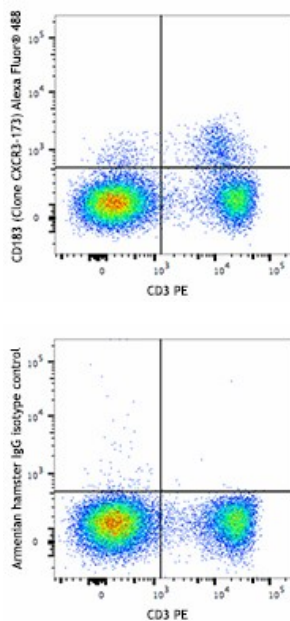
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Brilliant Violet 510™ anti-mouse CD183 (CXCR3), PE anti-mouse CD183 (CXCR3), Biotin anti-mouse CD183 (CXCR3), APC/Fire™ 750 anti-mouse CD183 (CXCR3), Purified anti-mouse CD183 (CXCR3), APC anti-mouse CD183 (CXCR3), PerCP/Cyanine5.5 anti-mouse CD183 (CXCR3), PE/Cyanine7 anti-mouse CD183 (CXCR3), Brilliant Violet 421™ anti-mouse CD183 (CXCR3), Brilliant Violet 605™ anti-mouse CD183 (CXCR3), Ultra-LEAF™ Purified anti-mouse CD183 (CXCR3), Brilliant Violet 650™ anti-mouse CD183 (CXCR3), PE/Dazzle™ 594 anti-mouse CD183 (CXCR3), FITC anti-mouse CD183 (CXCR3), Alexa Fluor® 488 anti-mouse CD183 (CXCR3), TotalSeq™-C0228 anti-mouse CD183 (CXCR3), TotalSeq™-B0228 anti-mouse CD183 (CXCR3), APC/Cyanine7 anti-mouse CD183 (CXCR3)

Product Data



C57BL/6 mouse splenocytes were stained with CD3 PE and CXCR3 (clone CXCR3-173) Alexa Fluor® 488 (top) or Armenian hamster IgG Alexa Fluor® 488 isotype control (bottom).

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587