

PE/Cyanine7 anti-mouse CD183 (CXCR3) Antibody

Catalog# / Size	126515 / 25 µg 126516 / 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 PE/Cyanine7 under optimal conditions.
Concentration	0.2 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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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.
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
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)	

Product Citations

1. Gaya M *et al.* 2018. *Cell*. 172(3):517-533 . [PubMed](#)
2. Wang D, *et al.* 2018. *Immunity*. 48:659. [PubMed](#)
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4. He W *et al.* 2018. *Immunity*. 49(6):1175-1190 . [PubMed](#)
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6. Phalke SP, *et al.* 2019. *PLoS One*. 14:e0218827. [PubMed](#)
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8. Brenndörfer E, *et al.* 2014. *J Immunol*. 192:1671. [PubMed](#)
9. Prota G, *et al.* 2015. *Vaccine*. 410: 01290-6. [PubMed](#)
10. Alves C, *et al.* 2015. *PLoS One*. 10: 0142972. [PubMed](#)
11. Chen L, *et al.* 2020. *J Exp Med*. 217:00:00. [PubMed](#)
12. Evgin L, *et al.* 2020. *Nat Commun*. 2.671527778. [PubMed](#)

RRID

AB_2086740 (BioLegend Cat. No. 126515)
AB_2245493 (BioLegend Cat. No. 126516)

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

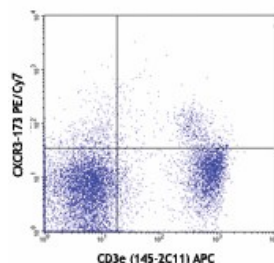
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

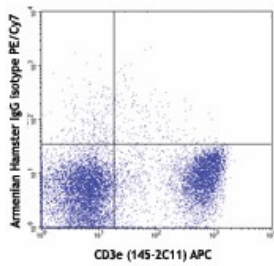
Other Formats

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 splenocytes stained with
CXCR3-173 PE/Cyanine7 and CD3e
(145-2C11) APC



C57BL/6 splenocytes stained with
Armenian Hamster IgG isotype
PE/Cyanine7 and CD3e (145-2C11)
APC

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