

Mouse CD184 Monoclonal Antibody | anti-CD184 antibody

Anti-Hu CD184 PE-Cy5

CATALOG # AAA129174	HOST Mouse	REACTIVITY Human, Non-human primates	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD184; Monoclonal Antibody; Anti-Hu CD184 PE-Cy5; CXCR4; LAP3; LCR1; HM89; fusin; SDF1R; C-X-C motif chemokine receptor 4; anti-CD184 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Non-human primates
Clonality	Monoclonal
Isotype	Mouse IgG2a kappa
Clone Number	12G5
Specificity	The mouse monoclonal antibody 12G5 recognizes an extracellular epitope of CD184, a 45kDa G-protein-linked CXC chemokine receptor widely expressed on blood and tissue cells.
Purity/Purification	The purified antibody is conjugated with tandem dye PE-Cy5 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD184 antibody	FCM/FACS (Flow Cytometry)
Conjugation	PE-Cy5
Immunogen	CP-MAC-infected Sup-T1 cells
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD184 antibody	CD184, also known as CXCR4 or fusin, is a receptor for the C-X-C chemokine SDF-1. It is expressed mainly in hematopoietic cells, vascular endothelium, and neural tissue. CD184 is a G-protein coupled receptor containing extracellular N-terminal, seven transmembrane domains and intracellular C-terminal domain. It transduces signal by increasing the intracellular calcium level. CD184 plays an essential role in vascularization of the gastrointestinal tract, and is involved in cerebellar development and in hematopoiesis. It is also a coreceptor (with CD4) for HIV-1 X4 virus and a primary receptor for some HIV-2 isolates.
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References	*Koopman G, Mortier D, Hofman S, Koutsoukos M, Bogers WM, Wahren B, Voss G, Heeney JL: Acute-phase CD4+ T-cell proliferation and CD152 upregulation predict set-point virus replication in vaccinated simian-human immunodeficiency virus strain 89.6p-infected macaques. J Gen Virol. 2009 Apr;90(Pt 4):915-26., URL: http://www.ncbi.nlm.nih.gov/pubmed/19223489,*Campioni D, Zauli G, Gambetti S, Campo G, Cuneo A, Ferrari R, Secchiero P: In vitro characterization of circulating endothelial progenitor cells isolated from patients with acute coronary syndrome. PLoS One. 2013;8(2):e56377., URL: http://www.ncbi.nlm.nih.gov/pubmed/23409178,*Uy GL, Rettig MP, Motabi IH, McFarland K, Trinkaus KM, Hladnik LM, Kulkarni S, Abboud CN, Cashen AF, Stockerl-Goldstein KE, Vij R, Westervelt P, DiPersio JF: A phase 1/2 study of chemosensitization with the CXCR4 antagonist plerixafor in relapsed or refractory acute myeloid leukemia. Blood. 2012 Apr 26;119(17):3917-24., URL: http://www.ncbi.nlm.nih.gov/pubmed/term=rettig+mp,*Grundler R, Brault L, Gasser C, Bullock AN, Dechow T, Woetzel S, Pogacic V, Villa A, Ehret S, Berridge G, Spoo A, Dierks C, Biondi A, Knapp S, Duyster J, Schwaller J: Dissection of PIM serine/threonine kinases in FLT3-ITD-induced leukemogenesis reveals PIM1 as regulator of CXCL12-CXCR4-mediated homing and migration. J Exp Med. 2009 Aug 31;206(9):1957-70., URL: http://www.ncbi.nlm.nih.gov/pubmed/term=grundler+
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56790927
NCBI GeneID	7852
NCBI Accession #	NP_001008540.1
NCBI GenBank Nucleotide #	NM_001008540.1
UniProt Accession #	P61073 ; O60835 ; P30991 ; P56438 ; Q53S69 ; Q9BXA0 ; Q9UKN2 ; B2R5N0
Molecular Weight	39,746 Da
NCBI Official Full Name	C-X-C chemokine receptor type 4 isoform a
NCBI Official Synonym Full Names	chemokine (C-X-C motif) receptor 4
NCBI Official Symbol	CXCR4
NCBI Official Synonym Symbols	FB22; HM89; LAP3; LCR1; NPYR; WHIM; CD184; LESTR; NPY3R; NPYRL; HSY3RR; NPYY3R; D2S201E
NCBI Protein Information	C-X-C chemokine receptor type 4; fusin; CXC-R4; CXCR-4; CD184 antigen; SDF-1 receptor; neuropeptide Y receptor Y3; seven transmembrane helix receptor; stromal cell-derived factor 1 receptor; lipopolysaccharide-associated protein 3; seven-transmembrane-seg
UniProt Protein Name	C-X-C chemokine receptor type 4
UniProt Gene Name	CXCR4
UniProt Synonym Gene Names	CXC-R4; CXCR-4; LESTR
UniProt Entry Name	CXCR4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/monoclonal/cd184-antibody-clone-12g5-flow-cytometry-elisa/129174>