

## Mouse CD184 Monoclonal Antibody | anti-CD184 antibody

Anti-Hu CD184 PE-Cy7

|                               |                      |                                                |                                                         |
|-------------------------------|----------------------|------------------------------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA129169</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Non-human primates</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|------------------------------------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

CD184; Monoclonal Antibody; Anti-Hu CD184 PE-Cy7; 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-Cy7 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-Cy7                                                                                                                                                                       |
| 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. |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>References</b> | <p>*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: <a href="http://www.ncbi.nlm.nih.gov/pubmed/19223489">http://www.ncbi.nlm.nih.gov/pubmed/19223489</a>,*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: <a href="http://www.ncbi.nlm.nih.gov/pubmed/23409178">http://www.ncbi.nlm.nih.gov/pubmed/23409178</a>,*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: <a href="http://www.ncbi.nlm.nih.gov/pubmed/term=rettig+mp">http://www.ncbi.nlm.nih.gov/pubmed/term=rettig+mp</a>,*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: <a href="http://www.ncbi.nlm.nih.gov/pubmed/term=grundler+">http://www.ncbi.nlm.nih.gov/pubmed/term=grundler+</a></p> |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">56790927</a>                                                                                                                                                                                                                                        |
| <b>NCBI GeneID</b>                      | <a href="#">7852</a>                                                                                                                                                                                                                                            |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001008540.1</a>                                                                                                                                                                                                                                  |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001008540.1</a>                                                                                                                                                                                                                                  |
| <b>UniProt Accession #</b>              | <a href="#">P61073</a> ; <a href="#">O60835</a> ; <a href="#">P30991</a> ; <a href="#">P56438</a> ; <a href="#">Q53S69</a> ; <a href="#">Q9BXA0</a> ; <a href="#">Q9UKN2</a> ; <a href="#">B2R5N0</a>                                                           |
| <b>Molecular Weight</b>                 | 39,746 Da                                                                                                                                                                                                                                                       |
| <b>NCBI Official Full Name</b>          | C-X-C chemokine receptor type 4 isoform a                                                                                                                                                                                                                       |
| <b>NCBI Official Synonym Full Names</b> | chemokine (C-X-C motif) receptor 4                                                                                                                                                                                                                              |
| <b>NCBI Official Symbol</b>             | CXCR4                                                                                                                                                                                                                                                           |
| <b>NCBI Official Synonym Symbols</b>    | FB22; HM89; LAP3; LCR1; NPYR; WHIM; CD184; LESTR; NPY3R; NPYRL; HSY3RR; NPYY3R; D2S201E                                                                                                                                                                         |
| <b>NCBI Protein Information</b>         | 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 |
| <b>UniProt Protein Name</b>             | C-X-C chemokine receptor type 4                                                                                                                                                                                                                                 |
| <b>UniProt Gene Name</b>                | <b>CXCR4</b>                                                                                                                                                                                                                                                    |
| <b>UniProt Synonym Gene Names</b>       | CXC-R4; CXCR-4; LESTR                                                                                                                                                                                                                                           |
| <b>UniProt Entry Name</b>               | 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](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/monoclonal/cd184-antibody-clone-12g5-flow-cytometry-elisa/129169>