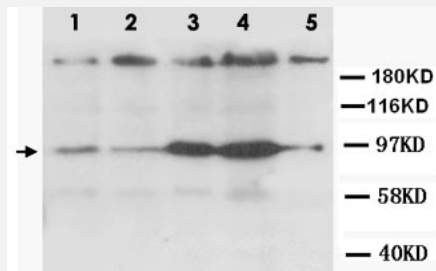


CXCR4 polyclonal antibody

Catalog # PAB12323 Size 100 ug

Applications

Western Blot (Cell lysate)



Western Blot analysis of CXCR4 expression from cell extracts with CXCR4 polyclonal antibody (Cat # PAB12323).

Lane 1 : MCF-7 whole cell lysate.

Lane 2 : HeLa whole cell lysate.

Lane 3 : Jurkat whole cell lysate.

Lane 4 : HT1080 whole cell lysate.

Lane 5 : Colo 320 whole cell lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CXCR4.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human CXCR4.
Host	Rabbit
Theoretical MW (kDa)	39.7, 40.2
Reactivity	Human, Mouse, Rat
Specificity	Different to the related rat sequence by two amino acids.
Form	Lyophilized
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2 ug/mL) The optimal working dilution should be determined by the end user.

Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of SLC10A1 expression from cell extracts with CXCR4 polyclonal antibody (Cat # PAB12323).

Lane 1 : MCF-7 whole cell lysate.

Lane 2 : HeLa whole cell lysate.

Lane 3 : Jurkat whole cell lysate.

Lane 4 : HT1080 whole cell lysate.

Lane 5 : Colo 320 whole cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Gene Info — CXCR4

Entrez GeneID	7852
Gene Name	CXCR4
Gene Alias	CD184, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPY3R, WHIM
Gene Description	chemokine (C-X-C motif) receptor 4
Omim ID	162643 193670
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelodysplastic syndrome) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations

C-X-C chemokine receptor type 4|CD184 antigen|chemokine (C-X-C motif), receptor 4 (fusin)|chemokine receptor 4|fusin|leukocyte-derived seven-transmembrane-domain receptor|lipopolysaccharide-associated protein 3|neuropeptide Y receptor Y3|seven transmembrane

Publication Reference

- [The chemokine receptor CXCR4 is essential for vascularization of the gastrointestinal tract.](#)

Tachibana K, Hirota S, Iizasa H, Yoshida H, Kawabata K, Kataoka Y, Kitamura Y, Matsushima K, Yoshida N, Nishikawa S, Kishimoto T, Nagasawa T.

Nature 1998 Jun; 393(6685):591.

- [Genomic organization and promoter characterization of human CXCR4 gene.](#)

Caruz A, Samsom M, Alonso JM, Alcamí J, Baleux F, Virelizier JL, Parmentier M, Arenzana-Seisdedos F.

FEBS Letters 1998 Apr; 426(2):271.

Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Leukocyte transendothelial migration](#)

Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)

- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Growth Hormone-Secreting Pituitary Adenoma](#)
- [Hepatitis B](#)
- [HIV Infections](#)
- [Hyperglycemia](#)
- [Liver Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Neoplasm Invasiveness](#)
- [Pituitary Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tumor Virus Infections](#)