

## Anti-CXCR4 Antibody

Catalog Number: PA2081

### About CXCR4

CXCR4 (Chemokine, CXC Motif, Receptor 4), also known as FUSIN or NPY3R, is a protein that in humans is encoded by the CXCR4 gene. It is the receptor for the CXC chemokine SDF1 that has essential functions on embryo organogenesis, immunological functions and T lymphocyte trafficking. CXCR4 is the only SDF1 receptor identified so far. This suggests that CXCR4 expression is critical for the biological effects of SDF1. CXCR4 is also a seven-transmembrane-spanning, G-protein-coupled receptor for the CXC chemokine PBSF/SDF-1. It functions as a co-receptor for T-cell-line tropic human immunodeficiency virus HIV-1. It was concluded that PBSF/SDF-1 and CXCR4 define a new signalling system for organ vascularization.

### Overview

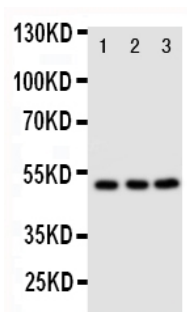
Product Name	Anti-CXCR4 Antibody
Reactive Species	Human
Description	Boster Bio Anti-CXCR4 Antibody catalog # PA2081. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P61073

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CXCR4.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

## Anti-CXCR4 Antibody (PA2081) Images



Anti-CXCR4 antibody, PA2081, Western blotting

Lane 1: M231 Cell Lysate

Lane 2: MCF-7 Cell Lysate

Lane 3: JURKAT Cell Lysate

## 13 Publications Citing This Product

1. PubMed ID: 25471741, Blockade of CXCL12/CXCR4 signaling inhibits intrahepatic cholangiocarcinoma progression and metastasis via inactivation of canonical Wnt pathway
2. PubMed ID: 18983683, Chemokine CXCL12 and its receptor CXCR4 expression are associated with perineural invasion of prostate cancer
3. PubMed ID: 25149650, Liu W, Wang Y, Wang H, Wang A. Cell Biochem Biophys. 2014 Dec;70(3):1893-900. Doi: 10.1007/s12013-014-0148-5. Anticancer Effects Of Chemokine Receptor 4(Cxcr4) Gene Silenced By Cxcr4-Sirna In Nude Mice Model Of Ovarian Cancer.

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