

For Research Use Only

# CXCR4/CD184 Polyclonal antibody

Catalog Number: 34316-1-AP



## Basic Information

|                                                               |                                                         |                                                              |
|---------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|
| <b>Catalog Number:</b><br>34316-1-AP                          | <b>GenBank Accession Number:</b><br>NM_003467.3         | <b>Purification Method:</b><br>Antigen affinity Purification |
| <b>Size:</b><br>150ul , Concentration: 520 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>7852                           | <b>Recommended Dilutions:</b><br>WB: 1:1000-1:8000           |
| <b>Source:</b><br>Rabbit                                      | <b>UNIPROT ID:</b><br>P61073-1                          |                                                              |
| <b>Isotype:</b><br>IgG                                        | <b>Full Name:</b><br>chemokine (C-X-C motif) receptor 4 |                                                              |
| <b>Immunogen Catalog Number:</b><br>EG1985                    | <b>Calculated MW:</b><br>40kDa                          |                                                              |
|                                                               | <b>Observed MW:</b><br>80-85 kDa                        |                                                              |

## Applications

|                                          |                                                                                                               |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, ELISA | <b>Positive Controls:</b><br>WB : A549 cells, HL-60 cells, HeLa cells, Jurkat cells, K-562 cells, MCF-7 cells |
| <b>Species Specificity:</b><br>human     |                                                                                                               |

## Background Information

C-X-C chemokine receptor type 4 (CXCR4, CD184) is a member of the Class A (rhodopsin-like) G protein-coupled receptor (GPCR) family and serves as the primary receptor for CXCL12, also known as stromal cell-derived factor-1 (SDF-1). As one of the most extensively studied chemokine receptors, CXCR4 plays a central role in regulating cell migration, tissue homing, immune surveillance, embryonic development, hematopoiesis, and stem cell maintenance. Upon binding CXCL12, CXCR4 activates multiple intracellular signaling pathways, including PI3K/AKT, MAPK/ERK, JAK/STAT, PLC/PKC, and Rho GTPase signaling, thereby controlling cell survival, proliferation, chemotaxis, cytoskeletal remodeling, and adhesion. Importantly, CXCR4 is recognized as one of the two principal co-receptors utilized by human immunodeficiency virus type 1 (HIV-1) for host cell entry. X4-tropic HIV-1 strains exploit CXCR4 together with CD4 to infect target T cells, making CXCR4 a longstanding focus of antiviral research.

## Storage

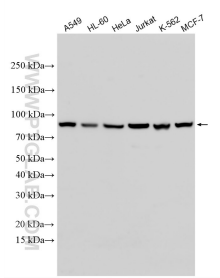
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
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# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 34316-1-AP (CXCR4/CD184 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.