

For Research Use Only

CXCR4/CD184 Polyclonal antibody

Catalog Number: 34316-1-AP



Basic Information

Catalog Number:

34316-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1985

GenBank Accession Number:

NM_003467.3

GeneID (NCBI):

7852

UNIPROT ID:

P61073-1

Full Name:

chemokine (C-X-C motif) receptor 4

Calculated MW:

40kDa

Observed MW:

80-85 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB: 1:1000-1:8000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : A549 cells, HL-60 cells, HeLa cells, Jurkat cells, K-562 cells, MCF-7 cells

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

For technical support and original validation data for this product please contact:

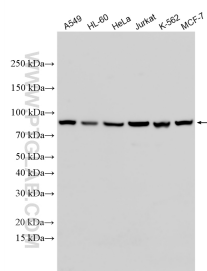
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.