

For Research Use Only

CXCR4 Monoclonal antibody

Catalog Number: 60042-1-Ig

Featured Product

58 Publications



Basic Information

Catalog Number:

60042-1-Ig

Concentration:

2000 ug/ml

Source:

Mouse

Isotype:

IgM

Immunogen Catalog Number:

AG1528

GenBank Accession Number:

BC020968

GeneID (NCBI):

7852

UNIPROT ID:

P61073

Full Name:

chemokine (C-X-C motif) receptor 4

Calculated MW:

352 aa, 40 kDa

Observed MW:

60-70 kDa

Purification Method:

Caprylic acid/ammonium sulfate precipitation

CloneNo.:

4B5E4

Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:300-1:1200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

human

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, THP-1 cells, Ramos cells, Daudi cells, Jurkat cells, Raji cells, K-562 cells

IHC: human tonsillitis tissue, human breast cancer tissue, human prostate cancer tissue

Background Information

C-X-C chemokine receptor type 4 (CXCR4) is a widely expressed G protein-coupled seven-transmembrane receptor. CXCL12/SDF-1 is the biological ligand for CXCR4. The binding of CXCL12 to CXCR4 induces intracellular signaling through several divergent pathways initiating signals related to chemotaxis, cell survival and/or proliferation, increase in intracellular calcium, and gene transcription (PMID: 20484021). CXCR4 also functions as a coreceptor for HIV-1 entry (PMID: 9427609). CXCR4 has a calculated molecular weight of 40 kDa. In addition to the predicted species of 45-47 kDa for glycosylated CXCR4 monomers, due to ubiquitination, dimerization, and different degrees of glycosylation, additional species can also exist and have been reported in some research, including 67 kDa (PMID: 23917520), 55, 67, 87 kDa (PMID: 20028517), 80 kDa (PMID: 10506573), 47, 50, 62, and 98 kDa (PMID: 16204649).

Notable Publications

Author	Pubmed ID	Journal	Application
Yibin Zhao	34540665	Front Oncol	WB
Jianjun Ma	36368650	Biochim Biophys Acta Mol Basis Dis	IF
Hua Zhang	29207021	Int J Mol Med	WB

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:

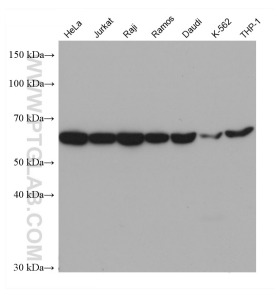
T: 4006900926

E: Proteintech-CN@ptglab.com

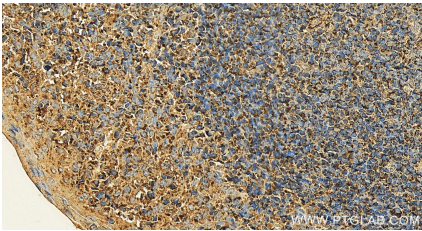
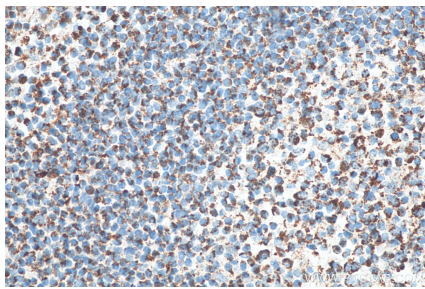
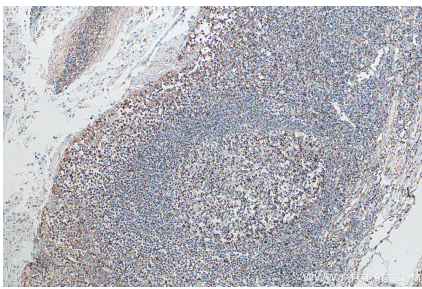
W: ptgcn.com

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 60042-1-Ig (CXC4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60042-1-Ig (CXC4 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).