

For Research Use Only

CXCL12/SDF-1 Recombinant monoclonal antibody

Catalog Number: 87669-1-RR **1 Publications**



Basic Information

Catalog Number: 87669-1-RR	GenBank Accession Number: BC020297	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 20315	CloneNo.: 252850A8
Source: Rabbit	UNIPROT ID: P40224	Recommended Dilutions: WB: 1:1000-1:10000 IHC: 1:500-1:2000
Isotype: IgG	Full Name: chemokine (C-X-C motif) ligand 12	
Immunogen Catalog Number: EG2402	Calculated MW: 11 kDa	
	Observed MW: 15 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : Transfected with Mouse Cxcl12 HEK-293T cells, IHC : mouse spleen tissue,
Cited Applications: WB	
Species Specificity: mouse	
Cited Species: rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

In adulthood, CXCL12 plays an important role in angiogenesis by recruiting endothelial progenitor cells (EPCs) from the bone marrow through a CXCR4 dependent mechanism (PMID: 17878755). It is this function of CXCL12 that makes it a very important factor in carcinogenesis and the neovascularisation linked to tumour progression (PMID: 16943240). CXCL12 also has a role in tumor metastasis where cancer cells that express the receptor CXCR4 are attracted to metastasis target tissues that release the ligand, CXCL12 (PMID: 11242036). In breast cancer, however, increased expression of CXCL12 determines a reduced risk of distant metastasis (PMID: 19646861; 17724466).

Notable Publications

Author	Pubmed ID	Journal	Application
Guanqun Zhu	41547984	NPJ Regen Med	WB

Storage

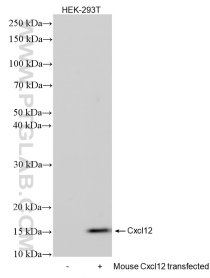
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

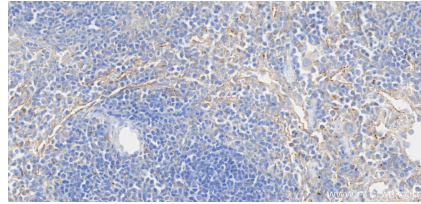
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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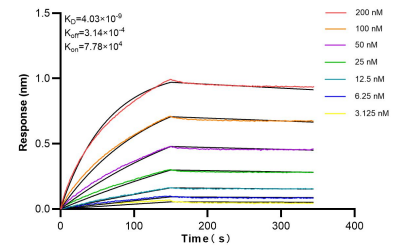
Selected Validation Data



HEK-293T cells and mouse Cxcl12 transfected HEK-293T cells lysates were subjected to SDS PAGE followed by western blot with 87669-1-RR (CXCL12/SDF-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 87669-1-RR (CXCL12/SDF-1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 87669-1-RR against Mouse CXCL12/SDF-1 were performed. The affinity constant is 4.03 nM.