

For Research Use Only

Mouse CXCL12/SDF-1 Recombinant monoclonal antibody, PBS Only

Catalog Number:87669-1-PBS



Basic Information

Catalog Number: 87669-1-PBS	GenBank Accession Number: BC020297	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 20315	CloneNo.: 252850A8
Source: Rabbit	UNIPROT ID: P40224	
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, Indirect ELISA

Species Specificity:
mouse

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).

Storage

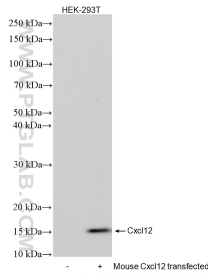
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

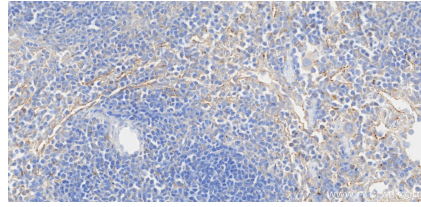
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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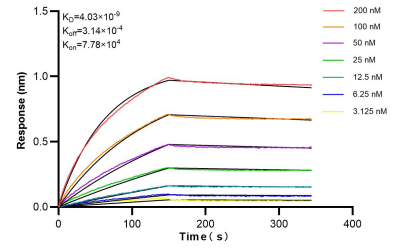
Selected Validation Data



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. This data was developed using the same antibody clone with 87669-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 87669-1-PBS in a different storage buffer formulation.



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