

For Research Use Only

CXCL12/SDF-1 Polyclonal antibody

Catalog Number: 17402-1-AP

Featured Product

63 Publications



Basic Information

Catalog Number:

17402-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11379

GenBank Accession Number:

BC039893

GeneID (NCBI):

6387

UNIPROT ID:

P48061

Full Name:

chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)

Calculated MW:

89 aa, 10 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

Applications

Tested Applications:

IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

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:

IHC: human liver cancer tissue,

IF/ICC: Jurkat cells,

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). This antibody can detect all the isoforms of CXCL12/SDF1.

Notable Publications

Author	Pubmed ID	Journal	Application
Bernardo Tavora	32999457	Nature	IF
Jianping Wang	28943249	Neuroscience	IF
Taotao Sun	36113503	Andrology	WB, IF

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

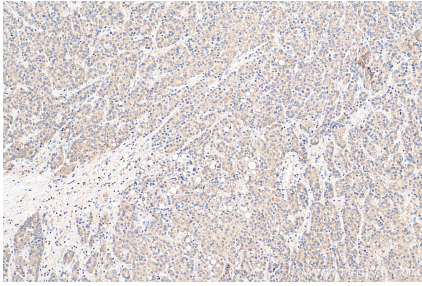
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

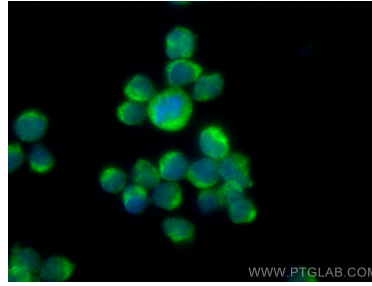
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17402-1-AP (CXCL12/SDF-1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CXCL12/SDF-1 antibody (17402-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).