

For Research Use Only

# CXCL12/SDF-1 Polyclonal antibody



Catalog Number: 17402-1-AP

Featured Product

47 Publications

## Basic Information

Catalog Number:

17402-1-AP

Size:

200 µg/ml

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

## Applications

Tested Applications:

FC, IHC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse

Positive Controls:

IHC : human liver cancer tissue,

**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). 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

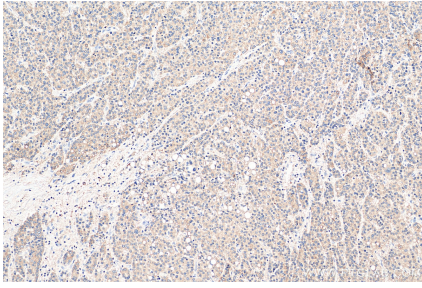
T: 4006900926

E: Proteintech-CN@ptglab.com

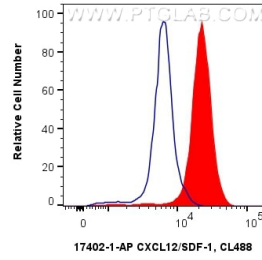
W: ptgcn.com

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## 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).



1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.4 ug Anti-Human CXCL12/SDF-1 (17402-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).