For Research Use Only

CXCL12/SDF-1
Polyclonal ANTIBODY

Catalog Number: 17402-1-AP
7 Publications

Basic Information

Catalog Number: 17402-1-AP
Size: 30 µg/150 µl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG11379

GenBank Accession Number: BC039893
GeneID (NCBI): 6387
Full Name: chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)
Calculated MW: 89aa, 10 kDa
Observed MW:

Recommended Dilutions:
IHC 1:20-1:200

Applications

Tested Applications:
IHC, ELISA
Cited Applications:
IF, WB
Species Specificity:
human
Cited Species:
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; human tonsillitis
tissue

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 neo-vascularisation
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/SDF-1.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>Jianping Wang</td>
<td>2943249</td>
<td>Neuroscience</td>
<td>IF</td>
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<tr>
<td>Shuang Liang</td>
<td>30542285</td>
<td>Front Pharmacol</td>
<td>WB</td>
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<tr>
<td>Kun Liu</td>
<td>28513173</td>
<td>Int J Hyperthermia</td>
<td>WB</td>
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Storage

Storage:
Store at -20ºC. Stable for one year after shipment.

Storage Buffers:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20ºC storage

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 Antibody) at dilution of 1:50 (under 10x lens)

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17402-1-AP (CXCL12 Antibody) at dilution of 1:50 (under 40x lens)