CXCL12/SDF-1 Polyclonal antibody

Catalog Number: 17402-1-AP

**Basic Information**

- **Catalog Number:** 17402-1-AP
- **Size:** 150μL, Concentration: 200 μg/ml by Nanodrop and 200 μg/ml by Bradford method using BSA as the standard.
- **Source:** Rabbit
- **Isotype:** IgG
- **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:** 89 aa, 10 kDa

**Purification Method:** Antigen affinity purification

**Recommended Dilutions:**

**Applications**

- **Tested Applications:** IHC, ELISA
- **Cited Applications:** IF, IHC, WB

**Species Specificity:** human

**Cited Species:** human, mouse, rat

**Positive Controls:**

- IHC: human liver cancer tissue, human tonsillitis 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**

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<td>Jianping Wang</td>
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<td>Lulu Chen</td>
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**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:

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