

Rabbit anti-Human SDF-1 Polyclonal Antibody | anti-CXCL12 antibody

Anti-SDF-1 Antibody, Rabbit Polyclonal

CATALOG # AAA254496	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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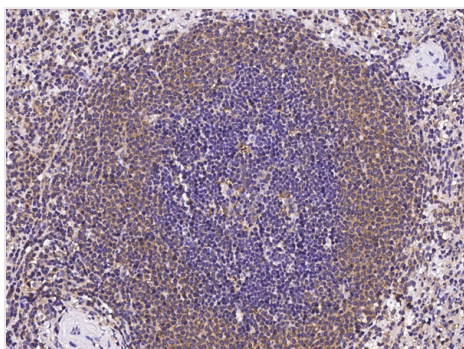
PRODUCT SYNONYMS

SDF-1; Polyclonal Antibody; Anti-SDF-1 Antibody; Rabbit Polyclonal; CXCL12/SDF-1 beta Antibody; Rabbit PAb; Antigen Affinity Purified; chemokine (C-X-C motif) ligand 12; Anti-IRH Antibody; Anti-PBSF Antibody; Anti-SCYB12 Antibody; Anti-SDF1 Antibody; Anti-TLSF Antibody; Anti-TPAR1 Antibody; anti-CXCL12 antibody

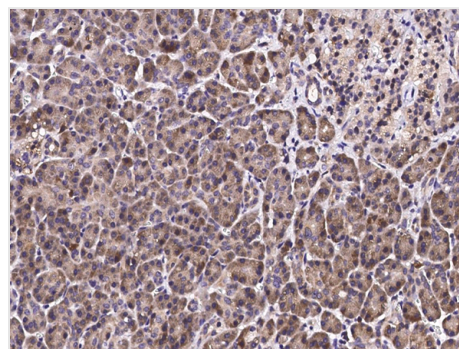
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human CXCL12/SDF-1 beta
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CXCL12 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant Human CXCL12/SDF-1 beta protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human CXCL12/SDF-1 beta (rh CXCL12/SDF-1 beta). CXCL12/SDF-1 beta specific IgG was purified by Human CXCL12/SDF-1 beta affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

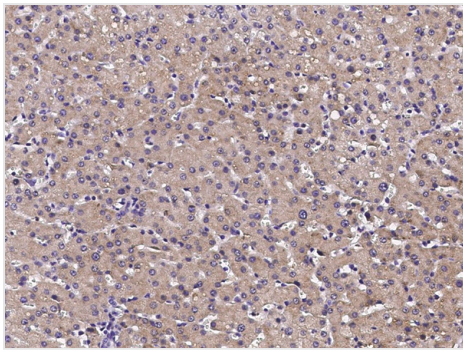
IMAGES


IHC (Immunohistochemistry)

Immunochemical staining of human CXCL12 in human spleen with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).


IHC (Immunohistochemistry)

Immunochemical staining of human CXCL12 in human pancreas with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
 Immunochemical staining of human CXCL12 in human liver with rabbit polyclonal antibody
 (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-CXCL12 antibody	The human stromal cell-derived factor-1 (SDF1), also known as CXCL12, is a small (8 kDa) cytokine highly conserved chemotactic cytokine belonging to the large family of CXC chemokines. SDF1 is expressed in two isoforms from a single gene that encodes two splice variants, SDF1alpha and SDF1beta, which are identical except for the four residues present in the C-terminus of SDF1beta but absent from SDF1alpha. The chemokine CXCL12 [stromal cell-derived factor-1 (SDF-1)] binds primarily to CXC receptor 4 (CXCR4; CD184). The binding of CXCL12 to CXCR4 induces intracellular signaling through several divergent pathways initiating signals related to chemotaxis, cell survival and/or proliferation, increase in intracellular calcium, and gene transcription. CXCL12 and CXCR4 that have been widely characterized in peripheral tissues and delineate their main functions in the CNS. Extensive evidence supports CXCL12 as a key regulator for early development of the CNS. In the mature CNS, CXCL12 modulates neurotransmission, neurotoxicity and neuroglial interactions. CXCL12 has crucial roles in the formation of multiple organ systems during embryogenesis and in the regulation of bone marrow haematopoiesis and immune function in the postnatal organism. Although considered an important factor in normal bone metabolism, recent studies implicate CXCL12 in the pathogenesis of several diseases involving the skeleton, including rheumatoid arthritis and cancers that metastasize to bone. The CXCL12/CXCR4 axis is involved in tumor progression, angiogenesis, metastasis, and survival. Pathologically enhanced CXCL12 signaling may promote the formation of new vessels through recruiting circulating endothelial progenitor cells or directly enhancing the migration/growth of endothelial cells. Therefore, CXCL12 signaling represents an important mechanism that regulates brain tumor angiogenesis/vasculogenesis and may provide potential targets for anti-angiogenic therapy in malignant gliomas.
Product Categories/Family for anti-CXCL12 antibody	Neuroinflammation
References	Bleul, C.C. et al., 1996, Nature. 382: 829-833. Sapede, D. et al., 2005, Proc. Natl. Acad. Sci. USA. 102: 1714-1718. Delgado, M.B. et al., 2001, Eur. J. Immunol. 31: 699-707. Orimo, A. et al., 2005, Cell. 121: 335-348. Kryczek, I. et al., 2007, Am. J. Physiol. Cell. Physiol. 292: C987-995. Bbalabanian, K. et al., 2005, J. Biol. Chem. 280: 35760-35766.

NCBI AND UNIPROT INFORMATION

NCBI GI #	76563933
NCBI GeneID	6387
NCBI Accession #	NP_001029058.1
NCBI GenBank Nucleotide #	NM_001033886.2
UniProt Accession #	P48061; Q2L985; Q2L986; Q2L988; Q5IT36; Q6ICW0; Q9H554; B2R4G0; E7EVL0; H7BYN8
Molecular Weight	10,666 Da
NCBI Official Full Name	stromal cell-derived factor 1 isoform gamma
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 12
NCBI Official Symbol	CXCL12

NCBI Official Synonym Symbols	IRH; PBSF; SDF1; TLSF; TPAR1; SCYB12
NCBI Protein Information	stromal cell-derived factor 1; intercrine reduced in hepatomas; pre-B cell growth-stimulating factor
UniProt Protein Name	Stromal cell-derived factor 1
UniProt Gene Name	CXCL12
UniProt Synonym Gene Names	SDF1; SDF1A; SDF1B; SDF-1; hSDF-1; IRH; hIRH; PBSF
UniProt Entry Name	SDF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sdf-1-antibody-immunohistochemistry-elisa/254496>