

CXCL4 / PF4 Antibody
Sheep Polyclonal Antibody
Catalog # ALS12466**Specification**

CXCL4 / PF4 Antibody - Product Information

Application	IHC-P, E
Primary Accession	P02776
Reactivity	Human
Host	Sheep
Clonality	Polyclonal
Calculated MW	11kDa KDa
Dilution	IHC-P~~N/A E~~N/A

CXCL4 / PF4 Antibody - Additional Information**Gene ID** 5196**Other Names**

Platelet factor 4, PF-4, C-X-C motif chemokine 4, Iroplact, Oncostatin-A, Platelet factor 4, short form, PF4, CXCL4, SCYB4

Target/Specificity

Recognizes human PF4.

Reconstitution & Storage

+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

CXCL4 / PF4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CXCL4 / PF4 Antibody - Protein Information**Name** PF4**Synonyms** CXCL4, SCYB4**Function**

Chemokine released during platelet aggregation that plays a role in different biological processes including hematopoiesis, cell proliferation, differentiation, and activation (PubMed:29930254, PubMed:9531587). Acts via different functional receptors including CCR1, CXCR3A or CXCR3B (PubMed:18174362, PubMed:29930254). Upon interaction with CXCR3A receptor, induces activated T-lymphocytes migration mediated via

downstream Ras/extracellular signal-regulated kinase (ERK) signaling (PubMed:18174362, PubMed:24469069). Neutralizes the anticoagulant effect of heparin by binding more strongly to heparin than to the chondroitin-4-sulfate chains of the carrier molecule. Plays a role in the inhibition of hematopoiesis and in the maintenance of hematopoietic stem cell (HSC) quiescence (PubMed:9531587). Chemotactic for neutrophils and monocytes via CCR1 (PubMed:29930254). Inhibits endothelial cell proliferation. In cooperation with toll-like receptor 8/TLR8, induces chromatin remodeling and activates inflammatory gene expression via the TBK1-IRF5 axis (PubMed:35701499). In addition, induces myofibroblast differentiation and collagen synthesis in different precursor cells, including endothelial cells, by stimulating endothelial-to-mesenchymal transition (PubMed:34986347). Interacts with thrombomodulin/THBD to enhance the activation of protein C and thus potentiates its anticoagulant activity (PubMed:9395524).

Cellular Location

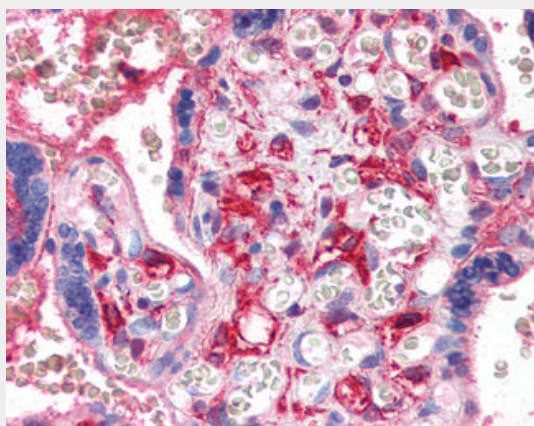
Secreted.

CXCL4 / PF4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CXCL4 / PF4 Antibody - Images



Anti-PF4 antibody IHC of human placenta.

CXCL4 / PF4 Antibody - Background

Released during platelet aggregation. Neutralizes the anticoagulant effect of heparin because it binds more strongly to heparin than to the chondroitin-4-sulfate chains of the carrier molecule. Chemotactic for neutrophils and monocytes. Inhibits endothelial cell proliferation, the short form is a more potent inhibitor than the longer form.

CXCL4 / PF4 Antibody - References

Poncz M.,et al.Blood 69:219-223(1987).
Eisman R.,et al.Blood 76:336-344(1990).
Zhang C.,et al.Blood 98:610-617(2001).
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).