

CXCL4 Recombinant Rabbit mAb

Catalog # AP100015

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	P02776
Other Accession	P02776
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	10845
Physical State	Liquid
Immunogen	A synthesized peptide derived from human Platelet factor 4
Epitope Specificity	75-101/101
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the intercrine alpha (chemokine CxC) family.
SUBUNIT	Homotetramer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Chemokine released during platelet aggregation that plays a role in different biological processes including hematopoiesis, cell proliferation, differentiation, and activation. Acts via different functional receptors including CCR1, CXCR3A or CXCR3B.

Additional Information

Gene ID	5196
Other Names	CXCL4; PF-4; SCYB4; Pf4a; RATPF4A; PLF4_HUMAN; PF4; C-X-C motif chemokine 4; Iroplact; Oncostatin-A; PLF4_RAT; platelet factor 4; chemokine (C-X-C motif) ligand 4
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IP=1:20-50,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PF4
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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.