

# PF4 Rabbit mAb

Catalog # AP76654

## Product Information

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Application	WB, IHC-P, IP
Primary Accession	<a href="#">P02776</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	10845

## Additional Information

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Gene ID	5196
Other Names	PF4
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~1/20
Format	Liquid

## Protein Information

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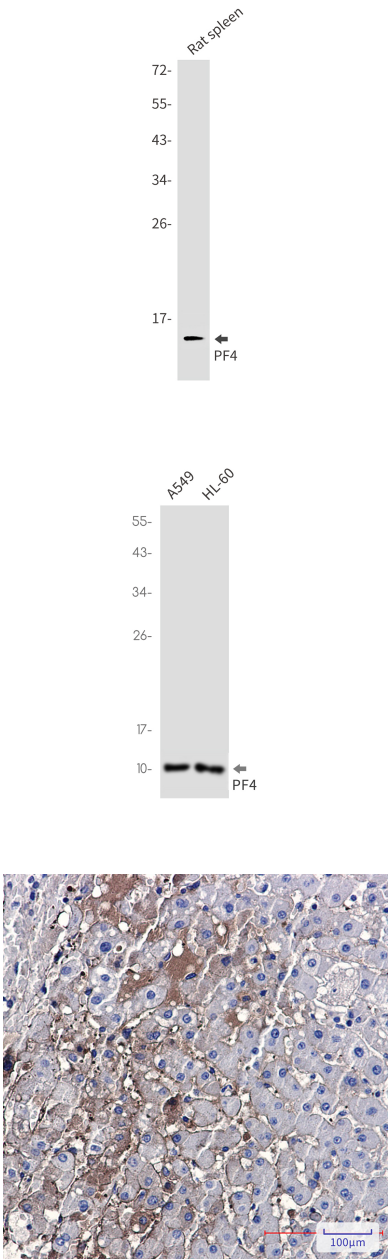
Name	PF4
Synonyms	CXCL4, SCYB4

**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.

Images



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