

**Anti-PF4 Picoband Antibody**  
**Catalog # ABO11629****Specification**

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**Anti-PF4 Picoband Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">P02776</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Platelet factor 4(PF4) detection. Tested with WB, ELISA in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-PF4 Picoband 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

**Calculated MW**

10845 MW KDa

**Application Details**

ELISA , 0.1-0.5 µg/ml, Human, -<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted.

**Protein Name**

Platelet factor 4

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E. coli-derived human PF4 recombinant protein (Position: E32-S101). Human PF4 shares 75.4% amino acid (aa) sequence identity with both mouse and rat PF4.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

## **Anti-PF4 Picoband 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](http://www.uniprot.org/citations/29930254), PubMed: [9531587](http://www.uniprot.org/citations/9531587)). Acts via different functional receptors including CCR1, CXCR3A or CXCR3B (PubMed: [18174362](http://www.uniprot.org/citations/18174362), PubMed: [29930254](http://www.uniprot.org/citations/29930254)). Upon interaction with CXCR3A receptor, induces activated T-lymphocytes migration mediated via downstream Ras/extracellular signal-regulated kinase (ERK) signaling (PubMed: [18174362](http://www.uniprot.org/citations/18174362), PubMed: [24469069](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/9531587)). Chemotactic for neutrophils and monocytes via CCR1 (PubMed: [29930254](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/35701499)). In addition, induces myofibroblast differentiation and collagen synthesis in different precursor cells, including endothelial cells, by stimulating endothelial-to-mesenchymal transition (PubMed: [34986347](http://www.uniprot.org/citations/34986347)). Interacts with thrombomodulin/THBD to enhance the activation of protein C and thus potentiates its anticoagulant activity (PubMed: [9395524](http://www.uniprot.org/citations/9395524)).

### **Cellular Location**

Secreted.

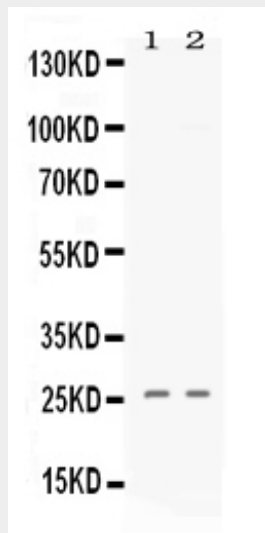
## **Anti-PF4 Picoband Antibody - Protocols**

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](#)

#### Anti-PF4 Picoband Antibody - Images



Western blot analysis of PF4 expression in 293T whole cell lysates (lane 1) and A549 whole cell lysates (lane 2). PF4 at 26KD was detected using rabbit anti- PF4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11629) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

#### Anti-PF4 Picoband Antibody - Background

Platelet factor 4 (PF4) is a small cytokine belonging to the CXC chemokine family that is also known as chemokine (C-X-C motif) ligand 4 (CXCL4). By in situ hybridization, the CXCL4 gene is mapped to chromosome 4q12-q21. Its major physiologic role appears to be neutralization of heparin-like molecules on the endothelial surface of blood vessels, thereby inhibiting local antithrombin III activity and promoting coagulation. As a strong chemoattractant for neutrophils and fibroblasts, PF4 probably has a role in inflammation and wound repair.