

Anti-Platelet factor 4 PF4 Antibody Picoband®

Catalog Number: PA1446

About PF4

CXCL4, Chemokine (C-X-C motif) ligand 4, is a 70-amino acid protein that is released from the alpha-granules of activated platelets and binds with high affinity to heparin. CXCL4 belongs to the CXC chemokine family. The CXCL4 gene contains 3 exons spanning approximately 1 kb. The gene is encoded on a 10-kb EcoRI fragment of genomic DNA. 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.

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Overview

Product Name	Anti-Platelet factor 4 PF4 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Platelet factor 4 PF4 Antibody catalog # PA1446. Tested in ELISA(Cap), IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB, ELISA (Cap)
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P02776

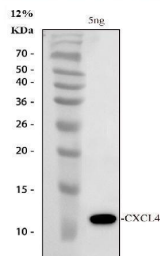
Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PF4.
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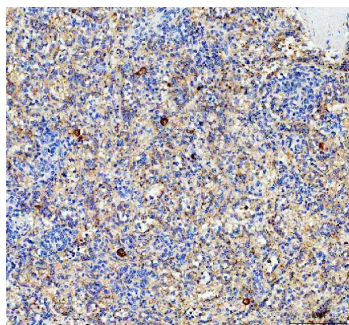
Recommended Detection Systems	Boster recommends ECL Plus Western Blotting Substrate (Catalog # AR1196-200) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human ELISA (Cap), 1-5ug/ml, -

Anti-Platelet factor 4 PF4 Antibody Picoband® (PA1446) Images

human CXCL4 recombinant protein



Western blot analysis of CXCL4/PF4 using anti-CXCL4/PF4 antibody (PA1446). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: recombinant human CXCL4 protein 5ng. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CXCL4/PF4 antigen affinity purified polyclonal antibody (PA1446) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for CXCL4/PF4 at approximately 11 kDa.



IHC analysis of CXCL4/PF4 using anti-CXCL4/PF4 antibody (PA1446). CXCL4/PF4 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-CXCL4/PF4 Antibody (PA1446) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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For Research Use Only. Not for use in diagnostic procedures.