

## Rabbit PF4/Cxcl4 Polyclonal Antibody | anti-PF4/Cxcl4 antibody

Anti-PF4/Cxcl4 Picoband antibody

| CATALOG # | HOST   | REACTIVITY                                             | APPLICATIONS                              |
|-----------|--------|--------------------------------------------------------|-------------------------------------------|
| AAA124596 | Rabbit | Mouse, Rat<br>No cross reactivity with other proteins. | Western Blot, Immunohistochemistry, ELISA |

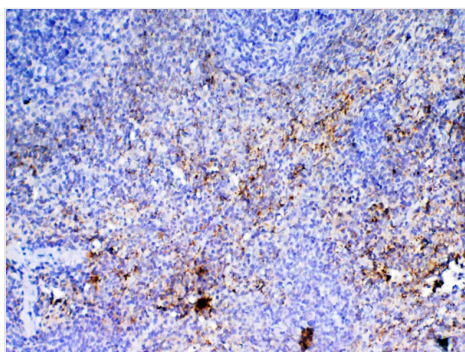
### PRODUCT SYNONYMS

PF4/Cxcl4; Polyclonal Antibody; Anti-PF4/Cxcl4 Picoband antibody; Platelet factor 4; PF-4; C-X-C motif chemokine 4; Pf4; Cxcl4; Scyb4; anti-PF4/Cxcl4 antibody

### PRODUCT SPECIFICATIONS

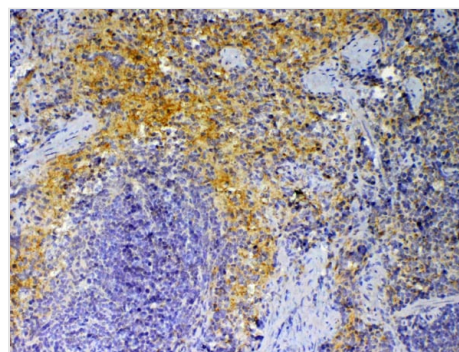
|                                                     |                                                                                                                                                                                                            |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                                                                                                                                                     |
| Reactivity                                          | Mouse, Rat<br>No cross reactivity with other proteins.                                                                                                                                                     |
| Clonality                                           | Polyclonal                                                                                                                                                                                                 |
| Form/Format                                         | Lyophilized                                                                                                                                                                                                |
| Sequence Length                                     | 105                                                                                                                                                                                                        |
| Applicable Applications for anti-PF4/Cxcl4 antibody | WB (Western Blot), IHC (Immunohistochemistry), ELISA                                                                                                                                                       |
| Immunogen                                           | E Coli-derived rat PF4 recombinant protein (Position: V30-S105).                                                                                                                                           |
| Subcellular Localization                            | Secreted.                                                                                                                                                                                                  |
| Reconstitution                                      | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Contents                                            | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                                  |
| Preparation and Storage                             | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES



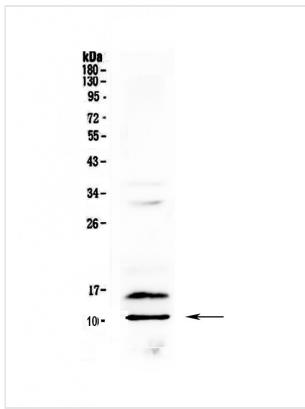
#### IHC (Immunohistochemistry)

Figure 3. IHC analysis of PF4 using anti-PF4 antibody (AAA124596). PF4 was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PF4 Antibody (AAA124596) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 2. IHC analysis of PF4 using anti-PF4 antibody (AAA124596). PF4 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PF4 Antibody (AAA124596) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



#### WB (Western Blot)

Figure 1. Western blot analysis of PF4 using anti-PF4 antibody (AAA124596). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat spleen tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-PF4 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PF4 at approximately 11KD. The expected band size for PF4 is at 11KD.

#### ADDITIONAL INFORMATION

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PF4/Cxcl4 antibody</b> | <p>Description: 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.</p> <p>Protein Function: 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.</p> |
| <b>Product Categories/Family for anti-PF4/Cxcl4 antibody</b>   | <p>Immunology; Innate Immunity; Macrophage/Inflamm.; Cardiovascular; Blood; Platelets; Atherosclerosis; Vascular Inflammation; Leukocyte Recruitment; Chemokines</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

#### NCBI AND UNIPROT INFORMATION

|                                         |                            |
|-----------------------------------------|----------------------------|
| <b>NCBI GI #</b>                        | 56090531                   |
| <b>NCBI GeneID</b>                      | 360918                     |
| <b>NCBI Accession #</b>                 | NP_001007730.1             |
| <b>NCBI GenBank Nucleotide #</b>        | NM_001007729.1             |
| <b>UniProt Accession #</b>              | P06765                     |
| <b>Molecular Weight</b>                 | 11,287 Da                  |
| <b>NCBI Official Full Name</b>          | platelet factor 4          |
| <b>NCBI Official Synonym Full Names</b> | platelet factor 4          |
| <b>NCBI Official Symbol</b>             | Pf4                        |
| <b>NCBI Official Synonym Symbols</b>    | PF-4; Pf4a; Cxcl4; RATPF4A |
| <b>NCBI Protein Information</b>         | platelet factor 4          |
| <b>UniProt Protein Name</b>             | Platelet factor 4          |

|                            |                    |
|----------------------------|--------------------|
| UniProt Gene Name          | Pf4                |
| UniProt Synonym Gene Names | Cxcl4; Scyb4; PF-4 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pf4-cxcl4-antibody-western-blot-immunohistochemistry-elisa/124596>