

For Research Use Only

# CXCL4/PF4 Polyclonal antibody, PBS Only

Catalog Number: 21157-1-PBS



## Basic Information

<b>Catalog Number:</b> 21157-1-PBS	<b>GenBank Accession Number:</b> BC093965	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5196	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P02776	
<b>Isotype:</b> IgG	<b>Full Name:</b> platelet factor 4	
<b>Immunogen Catalog Number:</b> AG12345	<b>Calculated MW:</b> 101 aa, 11 kDa	
	<b>Observed MW:</b> 10 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IP, Indirect ELISA

**Species Specificity:**  
human, mouse, pig

## Background Information

The chemokine (C-X-C motif) ligand 4 (CXCL4) is also named as PF4 (Platelet factor-4) and SCYB4. The platelets, the most abundant source of CXCL4 in vivo, control profibrotic macrophage activation via CXCL4. (PMID: 36807143). Exogenous CXCL4 drove profibrotic activation of monocyte-derived dendritic cells in vitro (PMID: 33042127). Platelet factor-4 is a 70-amino acid protein that is released from the alpha-granules of activated platelets and binds with high affinity to heparin. 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.

## Storage

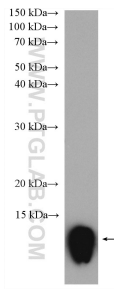
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

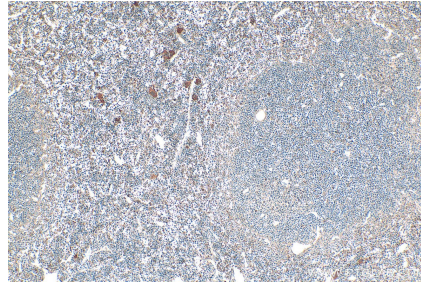
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

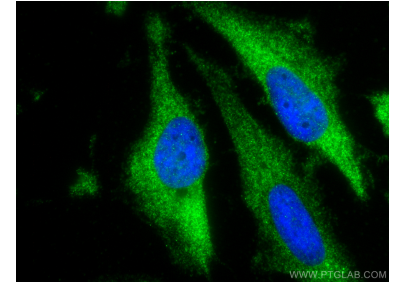
## Selected Validation Data



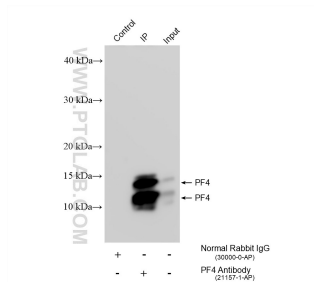
Human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 21157-1-AP (PF4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 21157-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 21157-1-AP (CXCL4/PF4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 21157-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PF4 antibody (21157-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 21157-1-PBS in a different storage buffer formulation.



IP result of anti-CXCL4/PF4 (IP:21157-1-AP, 4 $\mu$ g; Detection:21157-1-AP 1:1000) with mouse serum lysate 2200  $\mu$ g. This data was developed using the same antibody clone with 21157-1-PBS in a different storage buffer formulation.