

For Research Use Only

# Mouse CXCL4/PF4 Recombinant antibody, PBS Only (Capture)

Catalog Number: 85738-1-PBS



## Basic Information

<b>Catalog Number:</b> 85738-1-PBS	<b>GenBank Accession Number:</b> NM_019932	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 56744	<b>CloneNo.:</b> 242741H5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Z126	
<b>Isotype:</b> IgG	<b>Full Name:</b> platelet factor 4	
<b>Immunogen Catalog Number:</b> EG3345	<b>Calculated MW:</b> 11kd	
	<b>Observed MW:</b> 10-14 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Product Information

85738-1-PBS targets CXCL4/PF4 as part of a matched antibody pair:

MP02069-1: 85738-1-PBS capture and 85738-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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.

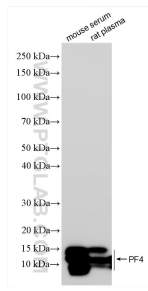
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS only, pH7.3

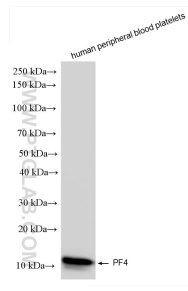
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

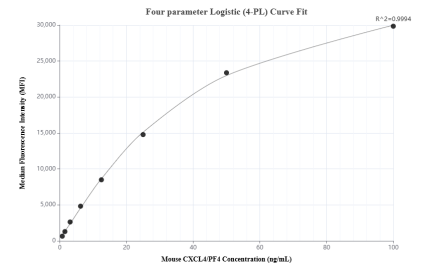
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85738-1-RR (CXCL4/PF4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85738-1-PBS in a different storage buffer formulation.



human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 85738-1-RR (PF4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85738-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP02069-1, MOUSE CXCL4/PF4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85738-1-PBS. Detection antibody: 85738-2-PBS. Standard: Eg3345. Range: 0.781-100 ng/mL