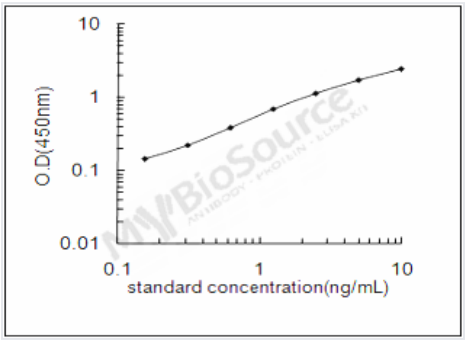
Platelet Factor 4 (PF4) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Platelet factor 4 (Pf4), ELISA Kit
Full Product Name	Rat Platelet factor 4 ELISA Kit
Product Gene Name	Pf4 elisa kit
Product Synonym Names	Platelet factor 4; PF-4; C-X-C motif chemokine 4; Pf4; Cxcl4; Scyb4
Species Reactivity	Rat
Assay Type	Sandwich
Detection Range	0.156-10 ng/mL
Sensitivity	0.085 ng/mL
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	11,287 Da
3D Structure	ModBase 3D Structure for P06765
Intra-Assay CV	<=4.3%
Inter-Assay CV	<=7.6%
Recovery	102%
Related Product Information for Pf4 elisa kit	MBS2880161 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Platelet factor 4 (Pf4) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Pf4. The ELISA analytical biochemical technique of the MBS2880161 kit is based on Pf4 antibody-Pf4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Pf4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Pf4. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of Pf4 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Typical Testing Data/Standard Curve (for reference only) of Pf4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Pf4. It may not necessarily be applicable to this product.

NCBI GI #	56090531
NCBI GeneID	360918
NCBI Accession #	NP_001007730.1
UniProt Primary Accession #	P06765
UniProt Related Accession #	P06765
GenBank Nucleotide #	NM_001007729.1
NCBI Official Full Name	platelet factor 4
NCBI Official Synonym Full Names	platelet factor 4
NCBI Official Symbol	Pf4
NCBI Official Synonym Symbols	PF-4; Pf4a; Cxcl4; RATPF4A
UniProt Protein Name	Platelet factor 4
UniProt Synonym Protein Names	C-X-C motif chemokine 4
Protein Family	Platelet factor
UniProt Gene Name	Pf4
UniProt Synonym Gene Names	Cxcl4; Scyb4; PF-4
UniProt Entry Name	PLF4_RAT
NCBI Protein Information	platelet factor 4
NCBI Summary for Pf4	member of low-molecular weight chemokines superfamily; may mediate inflammation and immune response [RGD, Feb 2006]
UniProt Comments for Pf4	PF4: 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, the short form is a more potent inhibitor than the longer form. Belongs to the intercrine alpha (chemokine CxC) family. Protein type: Chemokine; Apoptosis; Secreted, signal peptide; Motility/polarity/chemotaxis; Secreted Cellular Component: extracellular space; protein complex; vesicle Molecular Function: chemokine activity; CXCR chemokine receptor binding; CXCR3 chemokine receptor binding; heparin binding Biological Process: cytokine and chemokine mediated signaling pathway; G-protein coupled receptor protein signaling pathway; immune response; inflammatory response; leukocyte chemotaxis; negative regulation of angiogenesis; negative regulation of cytolysis; negative regulation of megakaryocyte differentiation; negative regulation of MHC class II biosynthetic process; platelet activation; positive regulation of cAMP metabolic process; positive regulation of leukocyte chemotaxis; positive regulation of macrophage differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of tumor necrosis factor production; protein complex assembly; regulation of cell proliferation; response to lipopolysaccharide
Research Articles on Pf4	**1.** The levels of PF-4 (as a platelet marker) mRNA were significantly higher in FeCl(2)-VT (2(-DeltaDeltaCT)=7.8) than in stasis-VT (2(-DeltaDeltaCT)=4.2, p<0.05).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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