

CXCL4/PF4 elisa kit

Rat CXCL4/PF4 PicoKine ELISA Kit

CATALOG # AAA124883	REACTIVITY Rat There is no detectable cross-reactivity with other relevant proteins.	APPLICATIONS ELISA
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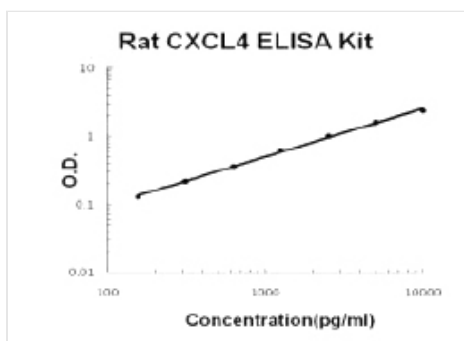
PRODUCT SYNONYMS

CXCL4/PF4; Rat CXCL4/PF4 PicoKine ELISA Kit; Platelet factor 4; PF-4; C-X-C motif chemokine 4; Pf4; Cxcl4; Scyb4; CXCL4/PF4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Rat CXCL4/PF4
Sequence Length	105
Assay Type	Quantitative Sandwich
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<15pg/ml
Applicable Applications for CXCL4/PF4 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CXCL4/PF4 elisa kit	Principle of the Assay: Rat CXCL4/PF4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CXCL4/PF4 has been precoated onto 96-well plates. Standards(Expression system for standard: E.coli, Immunogen sequence: V30-S105) and test samples are added to the wells, a biotinylated detection biotinylated polyclonal antibody from goat specific for CXCL4/PF4 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Rat CXCL4/PF4 amount of sample captured in plate. Background: 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). The PF4 gene was localized on 4q12-q13. Chemokines play fundamental roles in the development, homeostasis, and function of the immune system, and they have effects on cells of the central nervous system as well as on endothelial cells involved in angiogenesis or angiostasis. 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. As a strong chemoattractant for neutrophils and fibroblasts, PF4 probably has a role in inflammation and wound repair.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56090531
NCBI GeneID	360918
NCBI Accession #	NP_001007730.1
NCBI GenBank Nucleotide #	NM_001007729.1
UniProt Accession #	P06765
Molecular Weight	11,287 Da
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
NCBI Protein Information	platelet factor 4
UniProt Protein Name	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.