

Human CXCL4/PF4 PicoKine ELISA Kit | PF4 elisa kit

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CATALOG #
AAA46122

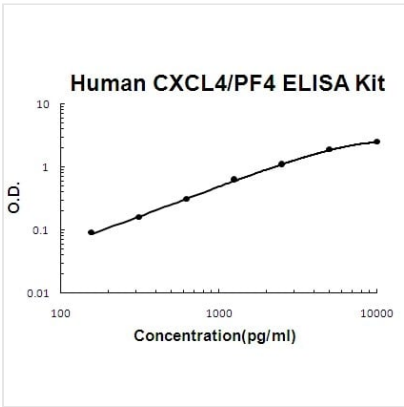
REACTIVITY
Human

PRODUCT SYNONYMS

CXCL4/PF4 PicoKine; Human CXCL4/PF4 PicoKine ELISA Kit; C-X-C motif chemokine 4; C X C motif chemokine 4; Chemokine (C X C motif) ligand 4; Chemokine (CXC motif) ligand 4; Chemokine; CXC motif; ligand 4; CXCL 4; CXCL4; Iroplact; MGC138298; Oncostatin A; Oncostatin-A; OncostatinA; PF 4; PF-4; PF4; Pf4a; Platelet factor 4; PLF4_HUMAN; RATPF4A; SCYB 4; SCYB4; short form; Small inducible cytokine subfamily B; member 4; Small inducible cytokine subfamily member 4; chemokine (C-X-C motif) ligand 4; PF4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human CXCL4
Sequence Length	101
Assay Range	156pg/ml-10000pg/ml
Sensitivity	<15pg/ml
Sample	For quantitative detection of human CXCL4 in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	E Coli, E32-S101
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human CXCL4 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human CXCL4 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 1125 3286 7428 1561 4017 8682 Standard deviation 61.88 138.01 475.39 104.59 237 633.79 CV(%) 5.5 4.2 6.4 6.7 5.9 7.3
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.008 0.092 0.159 0.308 0.626 1.104 1.872 2.474
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human CXCL4/PF4 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for PF4 elisa kit	Principle of the assay: Human CXCL4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CXCL4 has been precoated onto 96-well plates. Standards(Expression system for standard: E Coli, Immunogen sequence: E32-S101) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CXCL4 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 human CXCL4 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 #	4505733
NCBI GeneID	5196
NCBI Accession #	NP_002610.1
NCBI GenBank Nucleotide #	NM_002619.3
UniProt Accession #	P02776; Q53X61; Q9UC64; Q9UC65
Molecular Weight	10,845 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; CXCL4; SCYB4
NCBI Protein Information	platelet factor 4
UniProt Protein Name	Platelet factor 4

UniProt Gene Name	PF4
UniProt Synonym Gene Names	CXCL4; SCYB4; PF-4
UniProt Entry Name	PLF4_HUMAN

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/human-elisa-kits/cxcl4-pf4-picokine/46122>