

Human CXCL4/PF4 ELISA Kit | PF4 elisa kit

Human CXCL4/PF4 PicoKine Quick ELISA Kit

CATALOG # AAA126809	REACTIVITY Human	APPLICATIONS ELISA
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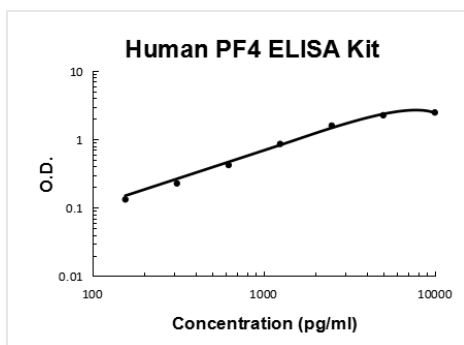
PRODUCT SYNONYMS

CXCL4/PF4; Human CXCL4/PF4 PicoKine Quick ELISA Kit; PF4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human PF4
Assay Type	Sandwich
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<15 pg/ml
Applicable Applications for 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 across 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 (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)

IMAGES



Standard Curve (Sample)

Human PF4 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for PF4 elisa kit	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. Principle of the Assay: The Quick Picokine™ Human PF4 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human PF4 in cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit includes Human PF4 protein as standards. To measure Human PF4, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human PF4 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human PF4 in the sample.
Product Categories/Family for PF4 elisa kit	PicoKine ELISA Kits, Fast ELISA Kits

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; iroplact; oncostatin-A; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 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.