

Datasheet for KOA0423**Human CXCL4 - PF4 ELISA Kit****Overview**

Description:	Human CXCL4/PF4 AccuSignal ELISA Kit - KOA0423
Item No.:	KOA0423
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

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.
Synonyms:	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
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<15 pg/ml

Target Details

Gene Name:	CXCL4
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Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: E32-S101
Purity/Specificity:	Natural and recombinant human CXCL4. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P02776 • NCBI - NP_002610.1 • GenelD - 5196 • KOA0423 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	156pg/ml-10000pg/ml
Other:	DOE: 2-8° C - 02/07/2024 -20° C - 08/07/2024

Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

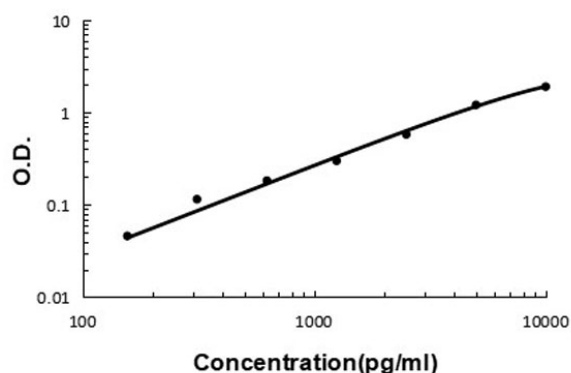
Shipping Condition:	Wet Ice
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Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images

Human CXCL4/PF4 ELISA Kit



ELISA

Human CXCL4/PF4 ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.