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Datasheet for KOA0520

Human PAI-1 ELISA Kit

Overview

Description:	Human PAI-1 AccuSignal ELISA Kit - KOA0520
Item No.:	KOA0520
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	Plasminogen activator inhibitor-1 is the principal inhibitor of tissue plasminogen activator(tPA) and urokinase(uPA), the activators of plasminogen and hence fibrinolysis(the physiological breakdown of blood clots). It is a serine protease inhibitor(serpin) protein(SERPINE1). PAI-1 is mainly produced by the endothelium(cells lining blood vessels), but is also secreted by other tissue types, such as adipose tissue. The PAI-1 gene is located on the seventh chromosome (7q21.3-q22).1 Congenital deficiency of PAI-1 leads to a hemorrhagic diathesis(a tendency to hemorrhage). PAI-1 is present in increased levels in various disease states(such as a number of forms of cancer), as well as in obesity and the metabolic syndrome. It has been linked to the increased occurrence of thrombosis in patients with these conditions. Additionally, it has been shown to interact with ORM1.2 The standard product used in this kit is recombinant human PAI-1 with the molecular mass of 43KDa.
Synonyms:	Endothelial plasminogen activator inhibitor, PAI, PAI-1, PAI1, PAI1_HUMAN, PLANH1, Plasminogen activator inhibitor 1, Serine (or cysteine) proteinase inhibitor clade E (nexin plasminogen activator inhibitor type 1) member 1, Serpin E1, Serpin peptidase inhibitor clade E (nexin plasminogen activator inhibitor type 1) member 1, SERPINE1
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	SERPINE1

Reactivity:	Human
Immunogen:	Expression system for standard: sf21; Immunogen sequence: S22-P402
Purity/Specificity:	Natural and recombinant human PAI-1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P05121 • NCBI - NP_000593.1 • GeneID - 5054 • KOA0520 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 PAI-1 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, cell lysates, serum or plasma(heparin, EDTA, citrate) to each empty well. It is recommended that each human PAI-1 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.

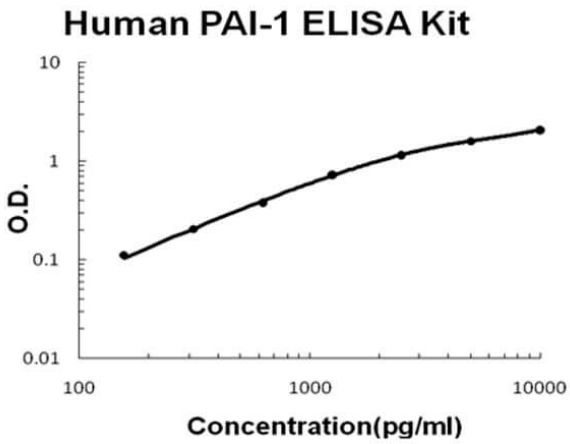
Formulation

Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
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



ELISA
Human PAI-1 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <10pg/ml.

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.