

Human PAI-1/SerpinE1 ELISA Kit | PAI-1/SerpinE1 elisa kit

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CATALOG #
AAA258351

REACTIVITY
Human

PRODUCT SYNONYMS

PAI-1/SerpinE1; Human PAI-1/SerpinE1 ELISA Kit; PAI-1 ELISA Kit; Human; serpin peptidase inhibitor; clade E (nexin; plasminogen activator inhibitor type 1); member 1; PAI ELISA Kit; PAI1 ELISA Kit; PLANH1 ELISA Kit; SERPINE1 ELISA Kit; PAI-1/SerpinE1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of PAI-1/SerpinE1 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	39-2500pg/mL
Sensitivity	5.84pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

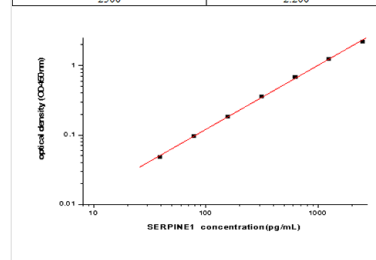
IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF
SerpinA1	SerpinA3	SerpinA5	SerpinB6
SerpinB9	SerpinC1	SerpinD1	uPAR
Vitronectin			

Application Data

This assay recognizes both recombinant and natural Human SERPINE1. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
39	0.048
78	0.096
156	0.185
312.5	0.360
625	0.687
1250	1.255
2500	2.200



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for PAI-1/Serpine1 elisa kit	This PAI-1 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human PAI-1 protein in Serum. It contains recombinant Human PAI-1, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use Background: Plasminogen activator inhibitor 1, also known as PAI-1, Endothelial plasminogen activator inhibitor, SerpinE1 and PLANH1, is a secreted glycoprotein that belongs to the serpin family. SerpinE1 is the primary physiological inhibitor of the two plasminogen activators urokinase (uPA) and tissue plasminogen activator (tPA). Its rapid interaction with TPA may function as a major control point in the regulation of fibrinolysis. Defects in SerpinE1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency) which is characterized by abnormal bleeding due to SerpinE1 defect in the plasma. High concentrations of SerpinE1 have been associated with thrombophilia which is an autosomal dominant disorder in which affected individuals are prone to develop serious spontaneous thrombosis. Studies of PAI-1 have contributed significantly to the elucidation of the protease inhibitory mechanism of serpins, which is based on a metastable native state becoming stabilised by insertion of the RCL into the central beta-sheet A and formation of covalent complexes with target proteases. Greater expression of PAI-1 has been associated with increased survival of cells and resistance to apoptosis. PAI-1 appears to influence apoptosis by decreasing cell adhesion (anoikis) as well as its effect on intracellular signaling. PAI-1, in its active state, also binds to the extracellular protein vitronectin. When in complex with its target proteases, it binds with high affinity to endocytosis receptors of the low density receptor family. The mechanisms of PAI-1 overexpression during obesity are complex, and it is conceivable that several inducers are involved at the same time at several sites of synthesis. PAI-1 is also implicated in adipose tissue development. It suggests that PAI-1 inhibitors serve in the control of atherothrombosis.
References	Alessi MC, et al. (2006) PAI-1 and the metabolic syndrome: links, causes, and consequences. Arterioscler Thromb Vasc Biol. 26(10): 2200-7. Schneider DJ, et al. (2008) The effect of plasminogen activator inhibitor type 1 on apoptosis. Thromb Haemost. 100(6): 1037-40. Dupont DM, et al. (2009) Biochemical properties of plasminogen activator inhibitor-1. Front Biosci. 14: 1337-61.

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/pai-1-serpine1/258351>