

Human PAI-1 ELISA Kit | SERPINE1 elisa kit

Human PAI-1 PicoKine ELISA Kit

CATALOG #
AAA45314

REACTIVITY
Human

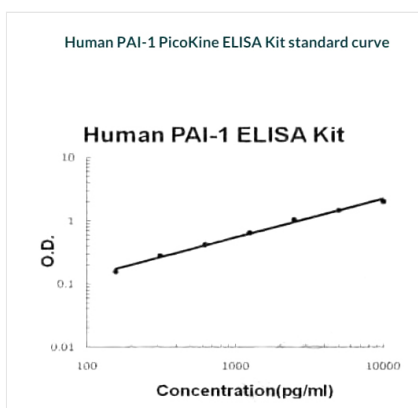
PRODUCT SYNONYMS

PAI-1; Human PAI-1 PicoKine ELISA Kit; Plasminogen activator inhibitor 1; serpin peptidase inhibitor; clade E (nexin; plasminogen activator inhibitor type 1); member 1; Endothelial plasminogen activator inhibitor; PAI; PAI1; PAI1_HUMAN; PLANH1; 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; SERPINE1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human SERPINE1
Sequence Length	402
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA, citrate)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<10 pg/ml
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 (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SERPINE1 elisa kit	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. Principle of the Assay: The Picokine™ Human SERPINE1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human SERPINE1 with a 96-well strip plate that is pre-coated with antibody specific for SERPINE1. The detection antibody is a biotinylated antibody specific for SERPINE1. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human SERPINE1 with immunogen: Expression system for standard: NS0; Immunogen sequence: S22-P402. The kit is analytically validated with ready-to-use reagents. To measure Human SERPINE1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP 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 at 450nm is linearly proportional to Human SERPINE1 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 SERPINE1 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	129576
NCBI GeneID	5054
UniProt Accession #	P05121; B7Z4S0; F8WD53
Molecular Weight	43,404 Da
NCBI Official Full Name	Plasminogen activator inhibitor 1
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
NCBI Official Symbol	SERPINE1
NCBI Official Synonym Symbols	PAI; PAI1; PAI-1; PLANH1
NCBI Protein Information	plasminogen activator inhibitor 1; serpin E1; endothelial plasminogen activator inhibitor; serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
UniProt Protein Name	Plasminogen activator inhibitor 1
UniProt Gene Name	SERPINE1
UniProt Synonym Gene Names	PAI1; PLANH1; PAI; PAI-1
UniProt Entry Name	PAI1_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.