

# Immunotag™ PAI-1 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT3569
Product Description	Immunotag™ PAI-1 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PAI-1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from the Internal region of human PAI-1
Specificity	PAI-1 Polyclonal Antibody detects endogenous levels of PAI-1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	SERPINE1
Accession No.	P05121 P22777 P20961
Alternate Names	SERPINE1; PAI1; PLANH1; Plasminogen activator inhibitor 1; PAI; PAI-1; Endothelial plasminogen activator inhibitor; Serpin E1

## Antibody Specification

Description	serpin family E member 1(SERPINE1) Homo sapiens This gene encodes a member of the serine proteinase inhibitor (serpin) superfamily. This member is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), and hence is an inhibitor of fibrinolysis. Defects in this gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the gene product are associated with thrombophilia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009],
Cell Pathway/ Category	p53,Complement and coagulation cascades,
Protein Expression	Lung,Placenta,
Subcellular Localization	extracellular region,extracellular space,plasma membrane,extracellular matrix,platelet alpha granule lumen,extracellular exosome,
Protein Function	disease:Defects in SERPINE1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency) [MIM:173360]. This deficiency is characterized by abnormal bleeding due to SERPINE1 defect in the plasma.,disease:High concentrations of SERPINE1 have been associated with thrombophilia [MIM:188050]; an autosomal dominant disorder in which affected individuals are prone to develop serious spontaneous thrombosis.,function:This inhibitor acts as 'bait' for tissue plasminogen activator, urokinase, and protein C. Its rapid interaction with TPA may function as a major control point in the regulation of fibrinolysis.,online information:Plasminogen activator inhibitor-1 entry,PTM:Inactivated by proteolytic attack of the urokinase-type (u-PA) and the tissue-type (TPA), cleaving the 369-Arg- -Met-370 bond.,similarity:Belongs to the serpin family.,subunit:Interacts with VTN. Binds LRP1B; binding is followed by internalization and degradation.,tissue specificity:Found in plasma and platelets and in endothelial, hepatoma and fibrosarcoma cells.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.