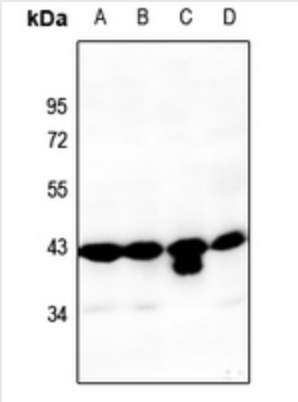
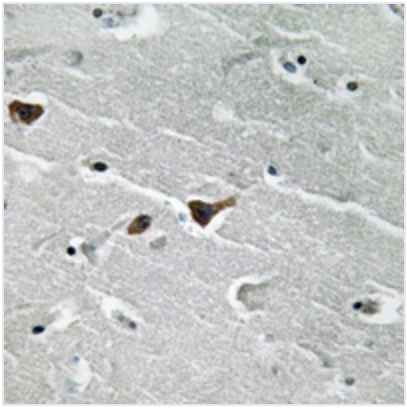
PAI1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAI1, Polyclonal Antibody
Full Product Name	Anti-PAI1 Antibody
Product Gene Name	anti-PAI1 antibody
Product Synonym Gene Name	SERPINE1
Product Synonym Names	PAI1; PLANH1; Plasminogen activator inhibitor 1; PAI; PAI-1; Endothelial plasminogen activator inhibitor; Serpin E1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	45,060 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (100770370..100782547). Location: 7q22.1
OMIM	173360
3D Structure	ModBase 3D Structure for P05121
Applications Tested/Suitable for anti-PAI1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-PAI1 antibody	Rabbit polyclonal antibody to PAI1 KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PAI1. The exact sequence is proprietary.
Other Notes	Small volumes of anti-PAI1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PAI1 purchase	MBS9240811 is an antibody targeting PAI1. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-PAI1 antibody
Dilution: WB (1/500 - 1/1000), IH (1/50 - 1/200)Western blot analysis of PAI1 expression in DLD (A), HepG2 (B), PMVEC (C), AML12 (D) whole cell lysates.



Immunohistochemistry (IHC) of anti-PAI1 antibody
Dilution: WB: (1/500 - 1/1000), IH (1/50 - 1/200)Immunohistochemical analysis of PAI1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAI1. It may not necessarily be applicable to this product.

NCBI GI #	10835159
NCBI GeneID	5054
NCBI Accession #	NP_000593.1
UniProt Primary Accession #	P05121
UniProt Secondary Accession #	B7Z4S0; F8WD53
UniProt Related Accession #	P05121
GenBank Nucleotide #	NM_000602.4
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
UniProt Protein Name	Plasminogen activator inhibitor 1
UniProt Synonym Protein Names	Endothelial plasminogen activator inhibitor; Serpin E1
Protein Family	Plasminogen activator inhibitor 1 RNA-binding protein
UniProt Gene Name	SERPINE1
UniProt Synonym Gene Names	PAI1; PLANH1; PAI; PAI-1
UniProt Entry Name	PAI1_HUMAN
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
NCBI Summary for PAI1	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]

UniProt Comments for PAI1	SERPINE1: a secreted protein that 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. Belongs to the serpin family. Interacts with VTN. Binds LRP1B; binding is followed by internalization and degradation. Plasma levels of PAI-1 and VCAM-1 together may be useful in predicting post-operative recurrence in patients with colorectal cancer. Protein type: Secreted, signal peptide; Motility/polarity/chemotaxis; Secreted Chromosomal Location of Human Ortholog: 7q22.1 Cellular Component: extracellular matrix; extracellular space; plasma membrane; extracellular region Molecular Function: serine-type endopeptidase inhibitor activity; protein binding; protease binding; receptor binding Biological Process: circadian rhythm; extracellular matrix organization and biogenesis; positive regulation of blood coagulation; negative regulation of smooth muscle cell migration; defense response to Gram-negative bacterium; positive regulation of receptor-mediated endocytosis; positive regulation of interleukin-8 production; platelet degranulation; negative regulation of fibrinolysis; transforming growth factor beta receptor signaling pathway; angiogenesis; regulation of receptor activity; chronological cell aging; negative regulation of cell adhesion mediated by integrin; negative regulation of cell migration; platelet activation; transcription initiation from RNA polymerase II promoter; transcription, DNA-dependent; negative regulation of blood coagulation; regulation of cell proliferation; positive regulation of angiogenesis; fibrinolysis; positive regulation of transcription from RNA polymerase II promoter; gene expression; blood coagulation; positive regulation of inflammatory response Disease: Plasminogen Activator Inhibitor-1 Deficiency
Research Articles on PAI1	**1.** No correlation between the development of osteoporosis in the female Turkish population and 4G/5G plasminogen activator inhibitor type-1 gene polymorphisms was observed.
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