

**PAI1 Antibody**  
**Rabbit mAb**  
**Catalog # AP91331****Specification**

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**PAI1 Antibody - Product Information**

Application	WB, FC, ICC, IP
Primary Accession	<a href="#">P05121</a>
Clonality	Monoclonal
<b>Other Names</b>	
PAI-1; PAI-1; PAI; Endothelial plasminogen activator inhibitor; SERPINE1; PAI1; PLANH1; Serpine 1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	45060 Da

**PAI1 Antibody - Additional Information**

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PAI1
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**PAI1 Antibody - Protein Information****Name** SERPINE1**Synonyms** PAI1, PLANH1**Function**

Serine protease inhibitor. Inhibits TMPRSS7 (PubMed:<a href="http://www.uniprot.org/citations/15853774" target="\_blank">15853774</a>). Is a primary inhibitor of tissue-type plasminogen activator (PLAT) and urokinase-type plasminogen activator (PLAU). As PLAT inhibitor, it is required for fibrinolysis down-regulation and is responsible for the controlled degradation of blood clots (PubMed:<a href="http://www.uniprot.org/citations/17912461" target="\_blank">17912461</a>, PubMed:<a href="http://www.uniprot.org/citations/8481516" target="\_blank">8481516</a>, PubMed:<a href="http://www.uniprot.org/citations/9207454" target="\_blank">9207454</a>). As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading (PubMed:<a href="http://www.uniprot.org/citations/9175705" target="\_blank">9175705</a>). Acts as a

regulator of cell migration, independently of its role as protease inhibitor (PubMed:<a href="http://www.uniprot.org/citations/15001579" target="\_blank">15001579</a>, PubMed:<a href="http://www.uniprot.org/citations/9168821" target="\_blank">9168821</a>). It is required for stimulation of keratinocyte migration during cutaneous injury repair (PubMed:<a href="http://www.uniprot.org/citations/18386027" target="\_blank">18386027</a>). It is involved in cellular and replicative senescence (PubMed:<a href="http://www.uniprot.org/citations/16862142" target="\_blank">16862142</a>). Plays a role in alveolar type 2 cells senescence in the lung (By similarity). Is involved in the regulation of cementogenic differentiation of periodontal ligament stem cells, and regulates odontoblast differentiation and dentin formation during odontogenesis (PubMed:<a href="http://www.uniprot.org/citations/25808697" target="\_blank">25808697</a>, PubMed:<a href="http://www.uniprot.org/citations/27046084" target="\_blank">27046084</a>).

### Cellular Location

Secreted.

### Tissue Location

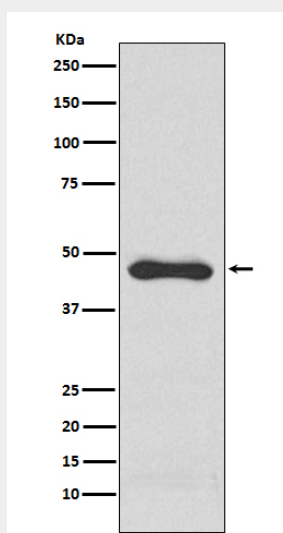
Expressed in endothelial cells (PubMed:2430793, PubMed:3097076). Found in plasma, platelets, and hepatoma and fibrosarcoma cells.

### PAI1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PAI1 Antibody - Images



Western blot analysis of PAI1 expression in HepG2 cell lysate.