

**PAI-1 Polyclonal Antibody**  
**Catalog # AP71752****Specification****PAI-1 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P05121</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**PAI-1 Polyclonal Antibody - Additional Information****Gene ID** 5054**Other Names**

SERPINE1; PAI1; PLANH1; Plasminogen activator inhibitor 1; PAI; PAI-1; Endothelial plasminogen activator inhibitor; Serpin E1

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**PAI-1 Polyclonal 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>, PubMed:<a href="http://www.uniprot.org/citations/21925150" target="\_blank">21925150</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

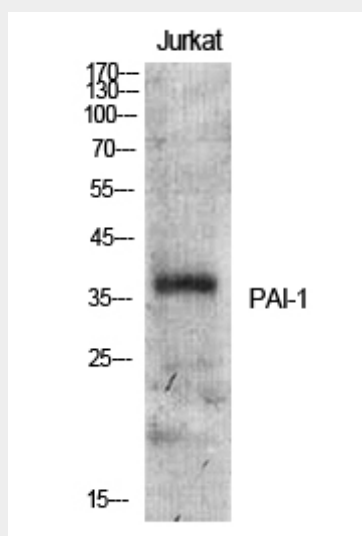
Expressed in endothelial cells (PubMed:2430793, PubMed:3097076). Found in plasma, platelets, and hepatoma and fibrosarcoma cells.

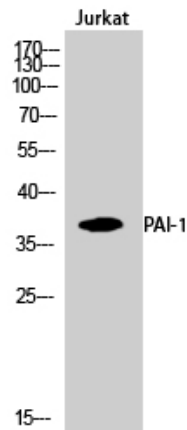
### PAI-1 Polyclonal Antibody - Protocols

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](#)

### PAI-1 Polyclonal Antibody - Images





### PAI-1 Polyclonal Antibody - Background

Serine protease inhibitor. Inhibits TMPRSS7 (PubMed:15853774). 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:8481516, PubMed:9207454, PubMed:17912461). As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading (PubMed:9175705). Acts as a regulator of cell migration, independently of its role as protease inhibitor (PubMed:15001579, PubMed:9168821). It is required for stimulation of keratinocyte migration during cutaneous injury repair (PubMed:18386027). It is involved in cellular and replicative senescence (PubMed:16862142). 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:25808697, PubMed:27046084).