

**SERPINE1 / PAI-1 Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS14540****Specification**

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**SERPINE1 / PAI-1 Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P05121</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	45kDa KDa

**SERPINE1 / PAI-1 Antibody - Additional Information**

Gene ID 5054

**Other Names**

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

**Target/Specificity**

Anti-PAI recognizes PAI expression in BGC-823 whole cell lysate.

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

SERPINE1 / PAI-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SERPINE1 / PAI-1 Antibody - Protein Information**

Name SERPINE1

Synonyms PAI1, PLANH1

**Function**

Serine protease inhibitor. Inhibits TMPRSS7 (PubMed:[15853774](http://www.uniprot.org/citations/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:[17912461](http://www.uniprot.org/citations/17912461), PubMed:[8481516](http://www.uniprot.org/citations/8481516), PubMed:[9207454](http://www.uniprot.org/citations/9207454)). As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading (PubMed:[9175705](http://www.uniprot.org/citations/9175705)). 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.

#### Volume

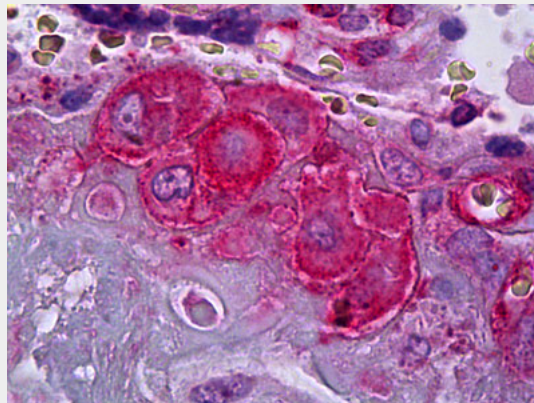
50 µl

### SERPINE1 / PAI-1 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](#)

### SERPINE1 / PAI-1 Antibody - Images



Anti-SERPINE1 / PAI-1 antibody IHC of human placenta, decidual cells.

### SERPINE1 / PAI-1 Antibody - Background

Serine protease inhibitor. This inhibitor acts as 'bait' for tissue plasminogen activator, urokinase, protein C and matriptase-3/TMPRSS7. Its rapid interaction with PLAT may function as a major control point in the regulation of fibrinolysis.

#### **SERPINE1 / PAI-1 Antibody - References**

- Pannekoek H., et al. EMBO J. 5:2539-2544(1986).  
Loskutoff D.J., et al. Biochemistry 26:3763-3768(1987).  
Ginsburg D., et al. J. Clin. Invest. 78:1673-1680(1986).  
Follo M., et al. Gene 84:447-453(1989).  
Strandberg L., et al. Eur. J. Biochem. 176:609-616(1988).