

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

SERPINE1 / PAI-1 Antibody - Product Information

Application	IHC
Primary Accession	P05121
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: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).

Cellular Location

Secreted.

Tissue Location

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

Volume

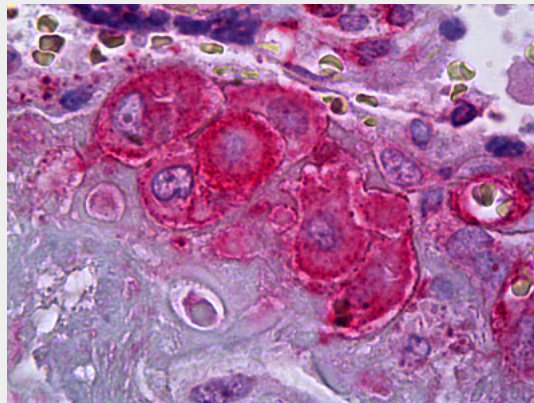
50 µl

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).