

SERPINE1 / PAI-1 Antibody (clone 1D5)
Mouse Monoclonal Antibody
Catalog # ALS15927**Specification**

SERPINE1 / PAI-1 Antibody (clone 1D5) - Product Information

Application	IHC, WB
Primary Accession	P05121
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	45kDa KDa

SERPINE1 / PAI-1 Antibody (clone 1D5) - 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

Human SERPINE1 / PAI-1

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

SERPINE1 / PAI-1 Antibody (clone 1D5) is for research use only and not for use in diagnostic or therapeutic procedures.

SERPINE1 / PAI-1 Antibody (clone 1D5) - Protein Information**Name** SERPINE1**Synonyms** PAI1, PLANH1**Function**

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).

Cellular Location

Secreted.

Tissue Location

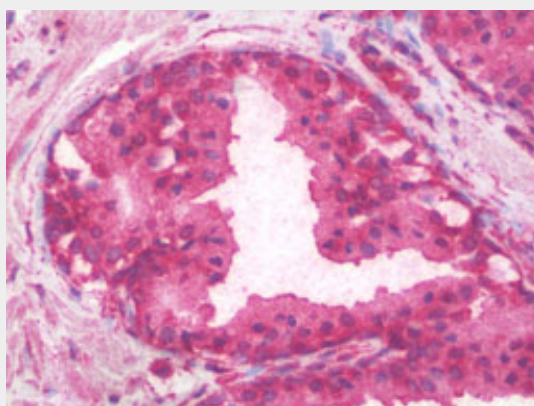
Expressed in endothelial cells (PubMed:2430793, PubMed:3097076). Found in plasma, platelets, and hepatoma and fibrosarcoma cells.

SERPINE1 / PAI-1 Antibody (clone 1D5) - Protocols

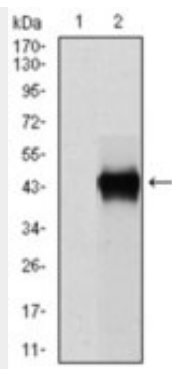
Provided below are standard protocols that you may find useful for product applications.

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

SERPINE1 / PAI-1 Antibody (clone 1D5) - Images



Anti-SERPINE1 / PAI-1 antibody IHC staining of human prostate.



Western blot using SERPINE1 monoclonal antibody against HEK293 (1) and SERPINE1 (AA:...

SERPINE1 / PAI-1 Antibody (clone 1D5) - 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 (clone 1D5) - 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).