

**SERPINE1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12919C**

**Specification**

---

**SERPINE1 Antibody (Center) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">P05121</a>
Other Accession	<a href="#">NP_000593.1</a> , <a href="#">NP_001158885.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	188-216

**SERPINE1 Antibody (Center) - 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**

This SERPINE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 188-216 amino acids from the Central region of human SERPINE1.

**Dilution**

WB~~1:1000

FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SERPINE1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**SERPINE1 Antibody (Center) - 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:[17912461](#), PubMed:[8481516](#), PubMed:[9207454](#)). 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

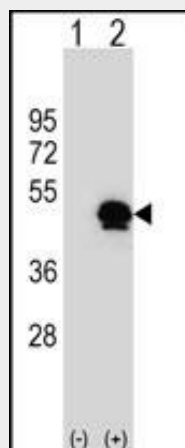
Expressed in endothelial cells (PubMed:2430793, PubMed:3097076). Found in plasma, platelets, and hepatoma and fibrosarcoma cells.

### SERPINE1 Antibody (Center) - Protocols

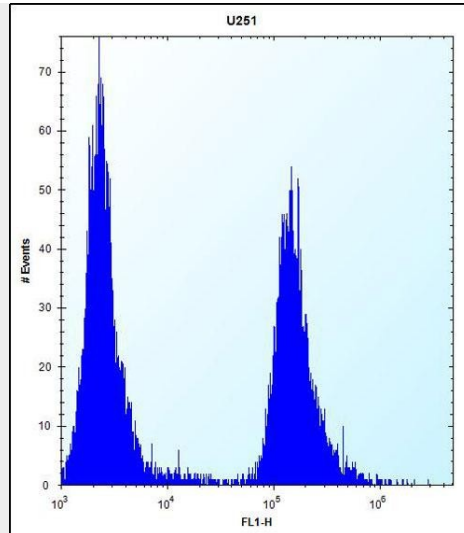
Provided below are standard protocols that you may find useful for product applications.

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

### SERPINE1 Antibody (Center) - Images



Western blot analysis of SERPINE1 (arrow) using rabbit polyclonal SERPINE1 Antibody (Center) (Cat. #AP12919c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SERPINE1 gene.



SERPINE1 Antibody (Center) (Cat. #AP12919c) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **SERPINE1 Antibody (Center) - Background**

This gene encodes a member of the serine proteinase inhibitor (serpin) superfamily. This member is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), and hence is an inhibitor of fibrinolysis. Defects in this gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the gene product are associated with thrombophilia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

#### **SERPINE1 Antibody (Center) - References**

Ma, Z., et al. *Biochem. Biophys. Res. Commun.* 400(4):569-574(2010)  
Ince, D.A., et al. *Genet Test Mol Biomarkers* 14(5):643-647(2010)  
Bern, M.M., et al. *Clin. Appl. Thromb. Hemost.* 16(5):574-578(2010)  
Markl, B., et al. *J Surg Oncol* 102(3):235-241(2010)  
de Haas, E.C., et al. *Cancer* (2010) In press :