

SERPINE1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12919c**Specification**

SERPINE1 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [P05121](#)**SERPINE1 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 5054**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SERPINE1 Antibody (Center) Blocking peptide - 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:18386027).

href="http://www.uniprot.org/citations/16862142" target="_blank">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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SERPINE1 Antibody (Center) Blocking peptide - Images**SERPINE1 Antibody (Center) Blocking peptide - Background**

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

SERPINE1 Antibody (Center) Blocking peptide - 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 :