

KD-Validated Anti-Serpin Family E Member 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1796

Product Information

Application	WB, FC, ICC
Primary Accession	P05121
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB4055
Calculated MW	45060
Gene Name	SERPINE1
Aliases	SERPINE1; Serpin Family E Member 1; PAI 2; PLANH1; PAI1; Serine (Or Cysteine) Proteinase Inhibitor, Clade E (Nexin, Plasminogen Activator Inhibitor Type 1), Member 1; Endothelial Plasminogen Activator Inhibitor; Plasminogen Activator Inhibitor 1; Serpin E1; PAI-1; Serpin Peptidase Inhibitor, Clade E (Nexin, Plasminogen Activator Inhibitor Type 1), Member 1; Plasminogen Activator Inhibitor, Type I
Immunogen	A synthesized peptide derived from human PAI1

Additional Information

Gene ID	5054
Other Names	Plasminogen activator inhibitor 1, PAI, PAI-1, Endothelial plasminogen activator inhibitor, Serpin E1, SERPINE1, PAI1, PLANH1

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 , PubMed: 21925150). 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.

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