

KD-Validated Anti-Serpin Family E Member 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1796**Specification****KD-Validated Anti-Serpin Family E Member 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P05121
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 45 kDa, observed, 45 kDa kDa
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

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

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

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

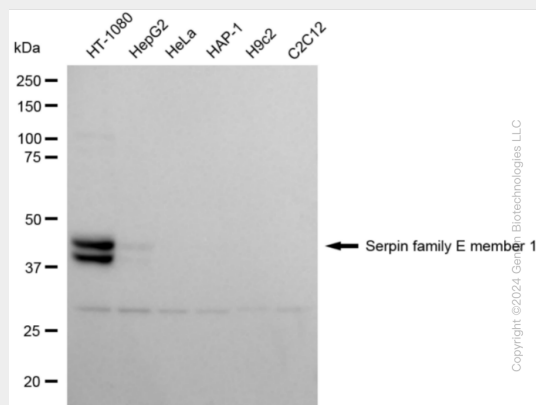
Expressed in endothelial cells (PubMed:2430793, PubMed:3097076). Found in plasma, platelets, and hepatoma and fibrosarcoma cells.

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

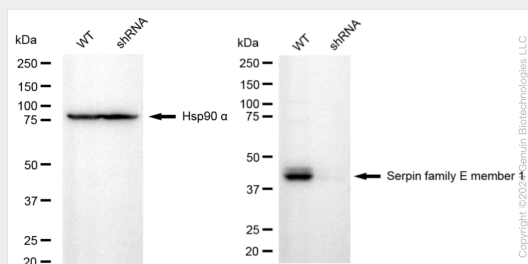
Provided below are standard protocols that you may find useful for product applications.

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

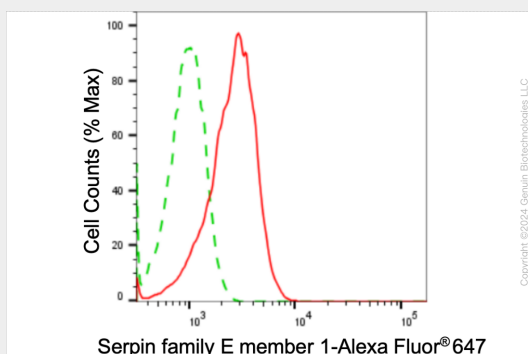
KD-Validated Anti-Serpin Family E Member 1 Rabbit Monoclonal Antibody - Images



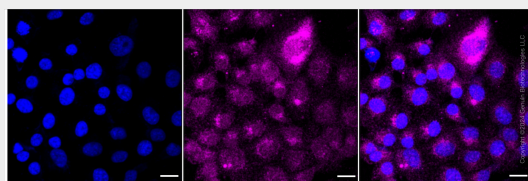
Western blotting analysis using anti-serpin family E member 1 antibody (Cat#AGI1796). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-serpin family E member 1 antibody (Cat#AGI1796, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-serpin family E member 1 antibody (Cat#AGI1796). Serpin family E member 1 expression in wild-type (WT) and serpin family E member 1 (SERPINE1) shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-serpin family E member 1 antibody (Cat#AGI1796, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Serpin family E member 1 expression in HT-1080 cells using anti-Serpin family E member 1 antibody (Cat#AGI1796, 1:2,000). Green, isotype control; red, Serpin family E member 1.



Immunocytochemical staining of HT-1080 cells with anti-Serpin family E member 1 antibody (Cat#AGI1796, 1:1,000). Nuclei were stained blue with DAPI; Serpin family E member 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.