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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.

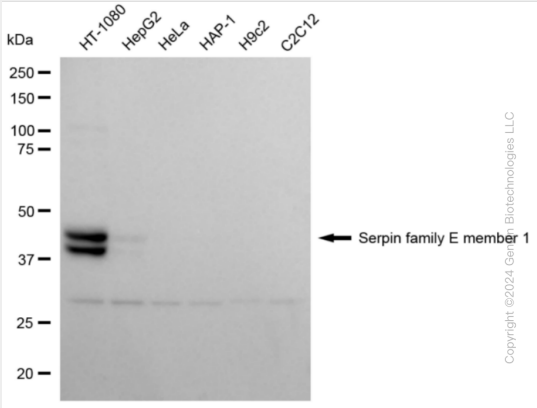
Tissue Location
Expressed in endothelial cells (PubMed:2430793, PubMed:3097076). Found in plasma, platelets, and hepatoma and fibrosarcoma cells.

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 Cytomety
- Cell Culture

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



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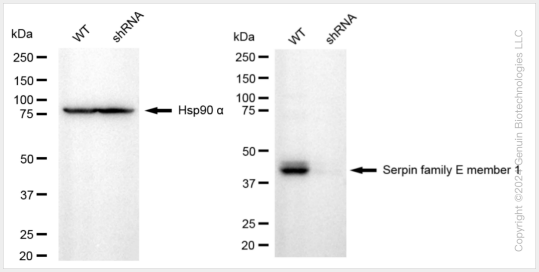
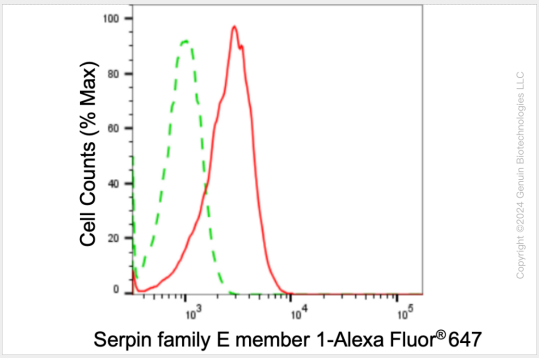
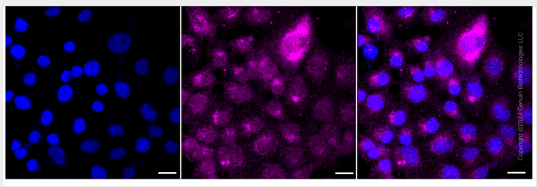
Western blotting analysis using anti-serpin family E member 1 antibody (Cat#AGI1796). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-serpin family E member 1 antibody (Cat#AGI1796, 1:5,000) and HRP-conjugated goat anti-rabbit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



Western blotting analysis using anti-serpin family E member 1 antibody (Cat#AGI1796). Serpin family E member 1expression 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.