

Product Name: KD-Validated SERPINB1 Mouse Monoclonal Antibody**Catalog #: KVA00654**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 42.7kDa

Antigen Information

Gene Name	SERPINB1
Alternative Names	SERPINB1; Serpin Family B Member 1; MNEI; PI2; LEI; EI; Leukocyte Elastase Inhibitor; ELANH2; Serine (Or Cysteine) Proteinase Inhibitor, Clade B (Ovalbumin), Member 1; Serpin Peptidase Inhibitor, Clade B (Ovalbumin), Member 1; Monocyte/Neutrophil Elastase Inhibitor; Peptidase Inhibitor; M/NEI; PI-2; Protease Inhibitor 2 (Anti-Elastase), Monocyte/Neutrophil Derived; Epididymis Secretory Protein Li 27; Epididymis Luminal Protein 57; Anti-Elastase; Serpin B1; HEL-S-27; HEL57
Gene ID	1992.0
SwissProt ID	P30740
Immunogen	Recombinant protein of human SERPINB1

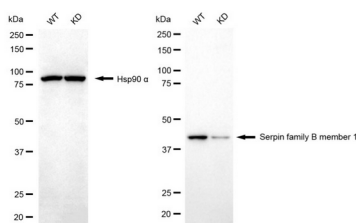
Background

The protein encoded by this gene is a member of the serpin family of proteinase inhibitors. Members of this family maintain homeostasis by neutralizing overexpressed proteinase activity through their function as suicide substrates. This protein inhibits the neutrophil-derived proteinases neutrophil elastase, cathepsin G, and proteinase-3 and thus protects tissues from damage at inflammatory sites. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

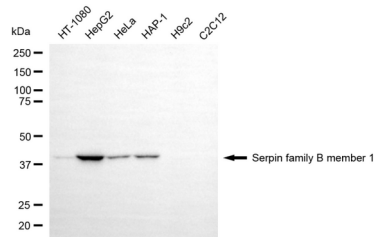
Research Area

Cardiovascular, Cell Biology

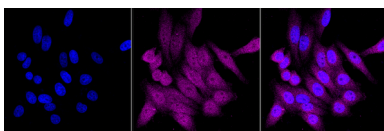
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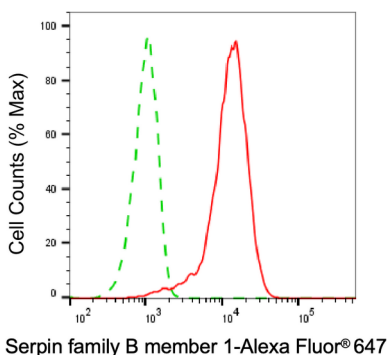
Western blotting analysis using serpin family B member 1 antibody (KVA00654). Serpin family B member 1 expression in wild type (WT) and serpin family B member 1 (SERPINB1) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with serpin family B member 1 antibody (KVA00654, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using serpin family B member 1 antibody (KVA00654). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with serpin family B member 1 antibody (KVA00654, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Serpin family B member 1 antibody (KVA00654, 1:1,000). Nuclei were stained blue with DAPI; Serpin family B 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 : Medium. Scale bar, 20 µm.



Flow cytometric analysis of Serpin family B member 1 expression in HepG2 cells using Serpin family B member 1 antibody (KVA00654, 1:2,000). Green, isotype control; red, Serpin family B member 1.