
Product Name: KD-Validated SUMO Specific Peptidase 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01259**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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: 73.5kDa

Antigen Information

Gene Name	SEN1 SEN1; SUMO Specific Peptidase 1; Sentrin/SUMO-Specific Protease SEN1; SUMO1/Sentrin
Alternative Names	Specific Peptidase 1; SUMO1/Sentrin Specific Protease 1; Sentrin-Specific Protease 1; EC 3.4.22.-; EC 3.4.22; SuPr-2
Gene ID	29843.0
SwissProt ID	Q9P0U3
Immunogen	A synthesized peptide derived from human SEN1

Background

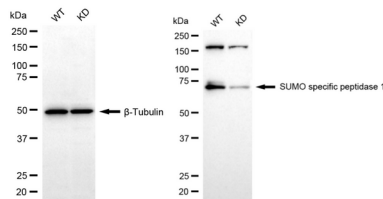
This gene encodes a cysteine protease that specifically targets members of the small ubiquitin-like modifier (SUMO) protein

family. This protease regulates SUMO pathways by deconjugating sumoylated proteins. This protease also functions to process the precursor SUMO proteins into their mature form. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]

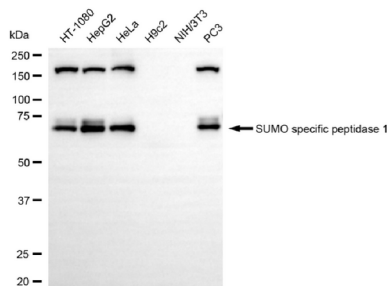
Research Area

Cell Biology, Epigenetics and Nuclear Signaling

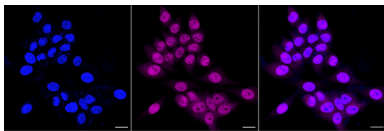
Image Data



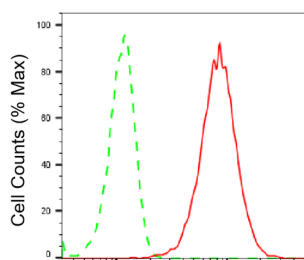
Western blotting analysis using SUMO specific peptidase 1 antibody (KVA01259). SUMO specific peptidase 1 expression in wild-type (WT) and SUMO specific peptidase 1 (SEN1) knockdown (KD) HSHC cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with SUMO specific peptidase 1 antibody (KVA01259, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using SUMO specific peptidase 1 antibody (KVA01259). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SUMO specific peptidase 1 antibody (KVA01259, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with SUMO specific peptidase 1 antibody (KVA01259, 1:1,000). Nuclei were stained blue with DAPI; SUMO specific peptidase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



SUMO specific peptidase 1-Alexa Fluor® 647

Flow cytometric analysis of SUMO specific peptidase 1 expression in HepG2 cells using SUMO specific peptidase 1 antibody (KVA01259, 1:2,000). Green, isotype control; red, SUMO specific peptidase 1.