



Rabbit Anti-SEN6 antibody

SL19633R

Product Name:	SEN6
Chinese Name:	Ubiquitin样蛋白特异性蛋白酶6抗体
Alias:	2810017C20Rik; FLJ11355; FLJ11887; KIAA0389; KIAA0797; SENP 6; Senp6; SENP6_HUMAN; Sentrin specific protease 6; Sentrin-specific protease 6; Sentrin/SUMO specific protease SENP6; Sentrin/SUMO-specific protease SENP6; SSP 1; SSP1; SUMO 1 specific protease 1; SUMO 1 specific protease; SUMO-1-specific protease 1; SUMO1 specific protease 1; SUMO1 specific protease; SUMO1/sentrin specific peptidase 6; SUSP 1; SUSP1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	126kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SENP6:1031-1112/1112
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Ubiquitin-like molecules (UBLs), such as SUMO1 (UBL1; MIM 601912), are structurally related to ubiquitin (MIM 191339) and can be ligated to target proteins in a

similar manner as ubiquitin. However, covalent attachment of UBLs does not result in degradation of the modified proteins. SUMO1 modification is implicated in the targeting of RANGAP1 (MIM 602362) to the nuclear pore complex, as well as in stabilization of I-kappa-B-alpha (NFKBIA; MIM 164008) from degradation by the 26S proteasome. Like ubiquitin, UBLs are synthesized as precursor proteins, with 1 or more amino acids following the C-terminal glycine-glycine residues of the mature UBL protein. Thus, the tail sequences of the UBL precursors need to be removed by UBL-specific proteases, such as SENP6, prior to their conjugation to target proteins (Kim et al., 2000 [PubMed 10799485]). SENPs also display isopeptidase activity for deconjugation of SUMO-conjugated substrates (Lima and Reverter, 2008 [PubMed 18799455]).[supplied by OMIM, Jun 2009]

Function:

Protease that deconjugates SUMO1, SUMO2 and SUMO3 from targeted proteins. Processes preferentially poly-SUMO2 and poly-SUMO3 chains, but does not efficiently process SUMO1, SUMO2 and SUMO3 precursors. Deconjugates SUMO1 from RXRA, leading to transcriptional activation. Involved in chromosome alignment and spindle assembly, by regulating the kinetochore CENPH-CENPI-CENPK complex. Desumoylates PML and CENPI, protecting them from degradation by the ubiquitin ligase RNF4, which targets polysumoylated proteins for proteasomal degradation. Desumoylates also RPA1, thus preventing recruitment of RAD51 to the DNA damage foci to initiate DNA repair through homologous recombination.

Subcellular Location:

Nucleus.

Tissue Specificity:

Highly expressed in reproductive organs, such as testis, ovary and prostate.

Similarity:

Belongs to the peptidase C48 family.

SWISS:

Q9GZR1

Gene ID:

26054

Database links:

[Entrez Gene: 26054](#) Human

[Entrez Gene: 421859](#) Chicken

[Entrez Gene: 462829](#) Chimpanzee

[Entrez Gene: 533853](#) Cow

[Entrez Gene: 481883](#) Dog

[Entrez Gene: 100068828](#) Horse

[Entrez Gene: 215351](#) Mouse

[Entrez Gene: 300860](#) Rat

[Entrez Gene: 716554](#) Rhesus monkey

[Omim: 605003](#) Human

[SwissProt: Q9GZR1](#) Human

[SwissProt: Q6P7W0](#) Mouse

[Unigene: 485784](#) Human

[Unigene: 28232](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.