

SENP1 Antibody
Rabbit mAb
Catalog # AP91872**Specification****SENP1 Antibody - Product Information**

Application	WB, IHC, FC, ICC
Primary Accession	Q9P0U3
Clonality	Monoclonal
Other Names	
SENP1; SuPr2;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	73481 Da

SENP1 Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human SENP1
Description	Protease that catalyzes two essential functions in the SUMO pathway: processing of full-length SUMO1, SUMO2 and SUMO3 to their mature forms and deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

SENP1 Antibody - Protein Information**Name** SENP1**Function**

Protease that catalyzes two essential functions in the SUMO pathway (PubMed:10652325, PubMed:15199155, PubMed:15487983, PubMed:16253240, PubMed:16553580, PubMed:21829689, PubMed:>21965678, PubMed:>23160374, PubMed:>24943844, PubMed:>25406032, PubMed:>29506078, PubMed:>34048572, PubMed:>37257451). The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptides, SUMO1, SUMO2 and SUMO3 leading to the mature form of the proteins (PubMed:>15487983). The second is the deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins, by cleaving an epsilon-linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine epsilon-amino group of the target protein (PubMed:>15199155, PubMed:>16253240, PubMed:>21829689, PubMed:>21965678, PubMed:>23160374, PubMed:>24943844, PubMed:>25406032, PubMed:>29506078, PubMed:>34048572, PubMed:>37257451). Deconjugates SUMO1 from HIPK2 (PubMed:>16253240). Deconjugates SUMO1 from HDAC1 and BHLHE40/DEC1, which decreases its transcriptional repression activity (PubMed:>15199155, PubMed:>21829689). Deconjugates SUMO1 from CLOCK, which decreases its transcriptional activation activity (PubMed:>23160374). Deconjugates SUMO2 from MTA1 (PubMed:>21965678). Inhibits N(6)-methyladenosine (m6A) RNA methylation by mediating SUMO1 deconjugation from METTL3 and ALKBH5: METTL3 inhibits the m6A RNA methyltransferase activity, while ALKBH5 desumoylation promotes m6A demethylation (PubMed:>29506078, PubMed:>34048572, PubMed:>37257451). Desumoylates CCAR2 which decreases its interaction with SIRT1 (PubMed:>25406032). Deconjugates SUMO1 from GPS2 (PubMed:>24943844).

Cellular Location

Nucleus. Cytoplasm Note=Shuttles between cytoplasm and nucleus

Tissue Location

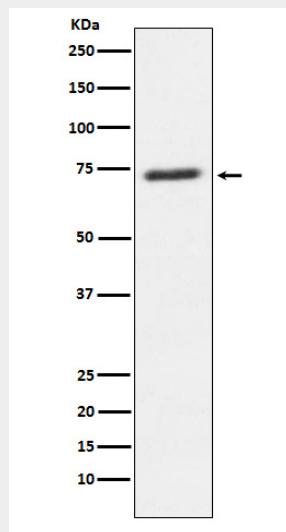
Highly expressed in testis. Expressed at lower levels in thymus, pancreas, spleen, liver, ovary and small intestine

SENP1 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](#)

SENP1 Antibody - Images

Western blot analysis of SENP1 expression in U87-MG cell lysate.