

Anti-SEN1 Rabbit Monoclonal Antibody

Catalog # ABO15381

Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	Q9P0U3
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-SEN1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

Additional Information

Gene ID	29843
Other Names	Sentrin-specific protease 1, 3.4.22.-, Sentrin/SUMO-specific protease SENP1, SENP1
Calculated MW	73481
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 FC 1:30
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 19S57
Immunogen	A synthesized peptide derived from human SENP1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	SEN1
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](#)).

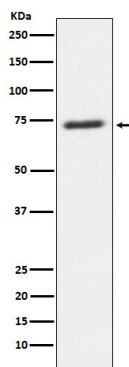
Cellular Location

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

Images



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

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