

SENP1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1231a

Specification

SENP1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q9P0U3
Other Accession	P59110
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	560-590

SENP1 Antibody (C-term) - Additional Information

Gene ID 29843

Other Names

Sentrin-specific protease 1, Sentrin/SUMO-specific protease SENP1, SENP1

Target/Specificity

This SENP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 560-590 amino acids from the C-terminal region of human SENP1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SENP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SENP1 Antibody (C-term) - Protein Information

Name SENP1

Function Protease that catalyzes two essential functions in the SUMO pathway
(PubMed:[10652325](#), PubMed:[15199155](#), PubMed:[16253240](#), PubMed:[16553580](#),

PubMed:[21829689](#), PubMed:[21965678](#), PubMed:[23160374](#), PubMed:[24943844](#),
PubMed:[25406032](#), PubMed:[29506078](#)). 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. 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. Deconjugates SUMO1 from HIPK2 (PubMed:[16253240](#)). Deconjugates SUMO1 from HDAC1 and BHLHE40/DEC1, which decreases its transcriptional repression activity (PubMed:[21829689](#)). Deconjugates SUMO1 from CLOCK, which decreases its transcriptional activation activity (PubMed:[23160374](#)). Deconjugates SUMO2 from MTA1 (PubMed:[21965678](#)). Deconjugates SUMO1 from METTL3 (PubMed:[29506078](#)). 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

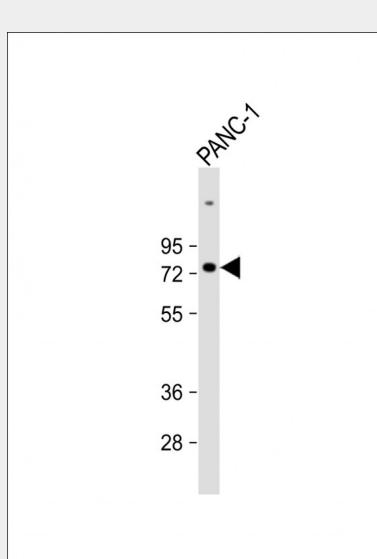
Highly expressed in testis. Expressed at lower levels in thymus, pancreas, spleen, liver, ovary and small intestine

SENP1 Antibody (C-term) - 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 (C-term) - Images



Anti-SENP1 Antibody (C-term) at 1:1000 dilution + PANC-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000

dilution. Predicted band size : 73 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

SENP1 Antibody (C-term) - Background

SENP1 is a 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. SENP deconjugates SUMO1 from HIPK2 and from HDAC1, which decreases the transcriptional repression activity of the latter.

SENP1 Antibody (C-term) - References

Gong, L., et al., J. Biol. Chem. 275(5):3355-3359 (2000).
Bailey, D., et al., J. Gen. Virol. 83 (Pt 12), 2951-2964 (2002).

SENP1 Antibody (C-term) - Citations

- [Covalent small ubiquitin-like modifier \(SUMO\) modification of Maf1 protein controls RNA polymerase III-dependent transcription repression.](#)
- [Modification of nuclear PML protein by SUMO-1 regulates Fas-induced apoptosis in rheumatoid arthritis synovial fibroblasts.](#)