

SENP1 Antibody (aa1-50)
Rabbit Polyclonal Antibody
Catalog # ALS15082**Specification**

SENP1 Antibody (aa1-50) - Product Information

Application	WB
Primary Accession	O9P0U3
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73kDa KDa

SENP1 Antibody (aa1-50) - Additional Information**Gene ID** 29843**Other Names**

Sentrin-specific protease 1, 3.4.22.68, Sentrin/SUMO-specific protease SENP1, SENP1

Target/Specificity

SENP1 Antibody detects endogenous levels of total SENP1 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

SENP1 Antibody (aa1-50) is for research use only and not for use in diagnostic or therapeutic procedures.

SENP1 Antibody (aa1-50) - 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

Volume

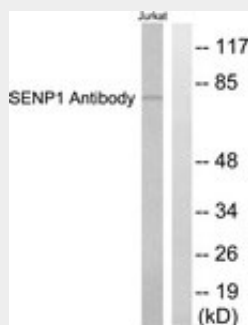
50 µl

SENP1 Antibody (aa1-50) - 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 (aa1-50) - Images



Western blot of extracts from Jurkat cells, using SENP1 Antibody.

SENP1 Antibody (aa1-50) - Background

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. Deconjugates SUMO1 from HIPK2. Deconjugates SUMO1 from HDAC1 and BHLHE40/DEC1, which decreases its transcriptional repression activity. Deconjugates SUMO1 from CLOCK, which decreases its transcriptional activation activity. Deconjugates SUMO2 from MTA1.

SENPI Antibody (aa1-50) - References

Gong L.,et al.J. Biol. Chem. 275:3355-3359(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.E.,et al.Nature 440:346-351(2006).
Bailey D.,et al.J. Biol. Chem. 279:692-703(2004).
Cheng J.,et al.Mol. Cell. Biol. 24:6021-6028(2004).