

**Mouse Senp1 Antibody(Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19695c****Specification**

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**Mouse Senp1 Antibody(Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P59110</a>
Other Accession	<a href="#">NP_659100.1</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	72511
Antigen Region	262-289

**Mouse Senp1 Antibody(Center) - Additional Information****Gene ID** 223870**Other Names**

Sentrin-specific protease 1, SUMO-1 protease 2, SuPr-2, Sentrin/SUMO-specific protease SENP1, Senp1, Supr2

**Target/Specificity**

This Mouse Senp1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 262-289 amino acids from the Central region of mouse Senp1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

Mouse Senp1 Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Senp1 Antibody(Center) - Protein Information****Name** Senp1**Synonyms** Supr2

**Function** Protease that catalyzes two essential functions in the SUMO pathway (PubMed:[15923632](#), PubMed:[29499132](#)). 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 (By similarity). Deconjugates SUMO1 from HDAC1 and BHLHE40/DEC1, which decreases its transcriptional repression activity (By similarity). Deconjugates SUMO1 from CLOCK, which decreases its transcriptional activation activity (By similarity). Deconjugates SUMO2 from MTA1 (By similarity). Deconjugates SUMO1 from METTL3 (By similarity). Desumoylates CCAR2 which decreases its interaction with SIRT1 (By similarity). Deconjugates SUMO1 from GPS2 (PubMed:[29499132](#)).

#### Cellular Location

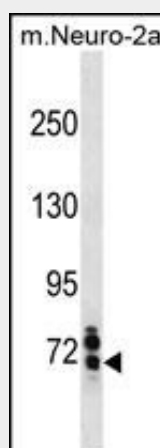
Nucleus {ECO:0000250|UniProtKB:Q9P0U3}. Cytoplasm. Note=Shuttles between cytoplasm and nucleus

#### Mouse Senp1 Antibody(Center) - 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](#)

#### Mouse Senp1 Antibody(Center) - Images



Mouse Senp1 Antibody (Center) (Cat. #AP19695c) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the Mouse Senp1 antibody detected the Mouse Senp1 protein (arrow).

#### Mouse Senp1 Antibody(Center) - 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, which decreases its transcriptional repression activity.

#### **Mouse Senp1 Antibody(Center) - References**

Bawa-Khalfe, T., et al. J. Biol. Chem. 285(33):25859-25866(2010)

Yu, L., et al. J. Exp. Med. 207(6):1183-1195(2010)

Sharma, P., et al. J. Cell. Sci. 123 (PT 8), 1227-1234 (2010) :

Li, X., et al. Cell Death Differ. 15(4):739-750(2008)

Cheng, J., et al. Cell 131(3):584-595(2007)