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Mouse Senp1 Antibody(Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19695c

Specification

Mouse Senp1 Antibody(Center) - Product Information

Application	**WB,E**
Primary Accession	P59110
Other Accession	NP_659100.1
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
E~~Use at an assay dependent concentration.

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 (By similarity). 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 (By similarity). 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). 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 (By similarity). Desumoylates CCAR2 which decreases its interaction with SIRT1 (By similarity). Deconjugates SUMO1 from GPS2 (PubMed:29499132).

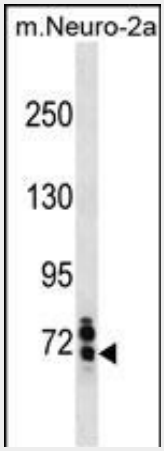
Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q9P0U3}. Cytoplasm {ECO:0000250|UniProtKB:Q9P0U3}. Note=Shuttles between cytoplasm and nucleus. {ECO:0000250|UniProtKB:Q9P0U3}

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 Cytomety
- 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).

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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)