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Mouse Senp1 Blocking Peptide(Center)

Synthetic peptide
Catalog # BP19695c

Specification

Mouse Senp1 Blocking Peptide(Center) - Product Information

Primary Accession	P59110
Other Accession	NP_659100.1

Mouse Senp1 Blocking Peptide(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
The synthetic peptide sequence is selected from aa 277-289 of MOUSE Senp1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Senp1 Blocking Peptide(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 Blocking Peptide(Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Mouse Senp1 Blocking Peptide(Center) - Images

Mouse Senp1 Blocking Peptide(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 Blocking Peptide(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)