

D SUMO Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1287b

Product Information

Application	WB, E
Primary Accession	O97102
Reactivity	Human, Drosophila
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	10124
Antigen Region	37-66

Additional Information

Gene ID	33981
Other Names	CG4494-PA; LD07775p; Smt3; Ubiquitin-like protein SMT3
Target/Specificity	This Drosophila SUMO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 37-66 amino acids of Drosophila SUMO.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
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	D SUMO Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	O97102
Cellular Location	Nucleus {ECO:0000256 RuleBase:RU361190}.

Background

Covalent modification of target lysines by SUMO (small ubiquitin-like modifier) modulates processes such as protein localization, transcription, nuclear transport, mitosis, DNA replication and repair, signal transduction, and viral reproduction. SUMO does not seem to be involved in protein degradation and may in fact function as an antagonist of ubiquitin in the degradation process. In the development of *Drosophila*, SUMO plays a maternal role in anterior-posterior (A/P) polarity and patterning.

References

Muller S, et al., Nat Rev Mol Cell Biol. 2001 2(3):202-10 Review.

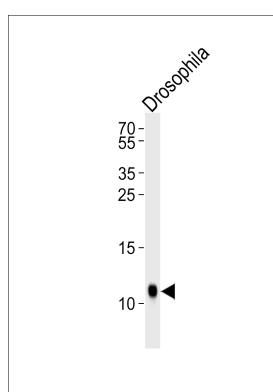
Hochstrasser M. Cell. 2001 107(1):5-8. Review.

Kahyo T, et al., Mol Cell. 2001 Sep;8(3):713-8.

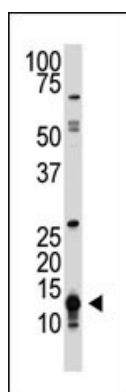
Yeh ET, et al., Gene. 2000 May 2;248(1-2):1-14. Review.

Keane, M.M., et al., Oncogene 18 (22), 3365-3375 (1999)

Images



Western blot analysis of lysate from *Drosophila* tissue lysate, using SUMO Antibody (V52)(*Drosophila*)(Cat. #AP1287B). AP1287B was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.



The SUMO1 Pab (Cat. #AP1287b) is used in Western blot to detect SUMO1 in HL-60 cell lysate.

Citations

- [MxA mediates SUMO-induced resistance to Vesicular Stomatitis Virus.](#)
- [Troponin I and Tropomyosin regulate chromosomal stability and cell polarity.](#)
- [RpL22e, but not RpL22e-like-PA, is SUMOylated and localizes to the nucleoplasm of Drosophila meiotic spermatocytes.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.