

## Polyclonal Antibody to SUMO1 (N-term) - Purified

<b>Alternate names:</b>	GAP-modifying protein 1, GMP1, PIC1, SMT3 homolog 3, SMT3C, SMT3H3, SUMO-1, Sentrin, Small ubiquitin-related modifier 1, UBL1, Ubiquitin-homology domain protein PIC1, Ubiquitin-like protein SMT3C, Ubiquitin-like protein UBL1, sumo1-a
<b>Catalog No.:</b>	AP11278PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.25 mg/ml
<b>Background:</b>	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. The SUMO family consists of SUMO1 and closely related homologs SUMO2, SUMO3, and SUMO4. Sumoylation has been shown to regulate a wide range of proteins, including MDM2, PIAS, PML, RanGAP1, RanBP2, p53, p73, HIPK2, TEL, c-Jun, Fas, Daxx, TNFRI, Topo-I, Topo-II, PARK2, WRN, Sp100, IκB-alpha, Androgen receptor (AR), GLUT1/4, CaMK, DNMT3B, TDG, HIF1A, CHD3, EXOSC9, RAD51, and viral targets such as CMV-IE1/2, EBV-BZLF1, and HPV/BPV-E1.
<b>Uniprot ID:</b>	<a href="#">O57686</a>
<b>NCBI:</b>	<a href="#">8355</a>
<b>GeneID:</b>	<a href="#">399078</a>
<b>Host / Isotype:</b>	Rabbit / Ig
<b>Immunogen:</b>	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of Xenopus SUMO1.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. <b>Buffer System:</b> PBS containing 0.09% (W/V) Sodium Azide as preservative.
<b>Applications:</b>	ELISA: 1/1,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific to SUMO1 (N-term). <b>Species:</b> Xenopus. Other species not tested.
<b>Add. Information:</b>	Predicted MW: 11703 Da

- Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
- Caution:** This product is for research use only. Not for use in diagnostic or therapeutic procedures.
- General Readings:**
1. Muller S, et al., Nat Rev Mol Cell Biol. 2001 2(3):202-10 Review.
  2. Hochstrasser M. Cell. 2001 107(1):5-8. Review.
  3. Kahyo T, et al., Mol Cell. 2001 Sep;8(3):713-8.
  4. Yeh ET, et al., Gene. 2000 May 2;248(1-2):1-14. Review.
  5. Keane, M.M., et al., Oncogene 18 (22), 3365-3375 (1999)