

Polyclonal Antibody to SUMO / SMT3 (N-term) - Purified

Alternate names:	GMP1, PIC1, Small ubiquitin-related modifier, UBL1, Ubiquitin-like protein SMT3, smo-1
Catalog No.:	AP11286PU-N
Quantity:	0.1 mg
Concentration:	0.25 mg/ml
Background:	Covalent attachment of one protein to another is one of the more prominent posttranslational modifications in respects to size and ubiquity ? to which eukaryotic proteins are subject. Ubiquitin is the most familiar of the protein modifiers and its activation and transfer to target proteins has been studied for over two decades. Recently a new group of ubiquitin-like (Ubl) proteins have come to light. One of the most intriguing of them is SUMO (small ubiquitin-like modifier, ~12kDa) also known as Sentrin. SUMO family has been described in vertebrates: SUMO-1 and the closest homologs SUMO-2 and SUMO-3. SUMO have been shown to bind and regulate mammalian SP-RINGS (such as Mdm2, PIAS and PML), RanGAP1, RanBP2, p53, p73, HIPK2, TEL, c-Jun, Fas, Daxx, TNFRI, Topo-I, Topo-II, WRN, Sp100, Ikb-alpha, Androgen receptor (AR), GLUT1/4, Drosophila Ttk69, Dorsal, CaMK, yeast Septins, and viral CMV-IE1/2, EBV-BZLF1, HPV/BPV-E1. These bindings implicate SUMO in the stabilization of the target proteins and/or their localization to subcellular complexes. SUMO research enters now an exciting phase with a promise to help understanding how cells orchestrate the complexities of rapidly regulating protein level and activity.
Uniprot ID:	P55853
NCBI:	NP_490842.1
GeneID:	266820
Host / Isotype:	Rabbit / Ig
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide from the N-terminal region of nematode SUMO.
Format:	State: Liquid purified Ig fraction Purification: Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS Buffer System: PBS containing 0.09% (W/V) Sodium Azide as preservative
Applications:	ELISA: 1/1,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to Nematode SUMO (N-term).
Add. Information:	Predicted MW: 10222 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. Fraser, A.G., et al., Nature 408(6810):325-330 (2000).
2. Lapenta, V., et al., Genomics 40(2):362-366 (1997).