

Product datasheet for **AP11291PU-N**

Sumo 1 (SUMO1) (pan SUMO) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blot: 1/100-1/500. Immunohistochemistry on paraffin sections: 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a recombinant protein encoding full length of human SUMO1.
Specificity:	This antibody recognize all 3 SUMO isoforms, including human SUMO1, SUMO2 and SUMO3.
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	small ubiquitin-like modifier 1
Database Link:	Entrez Gene 7341 Human P63165



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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. 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, I κ B-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.

Synonyms:

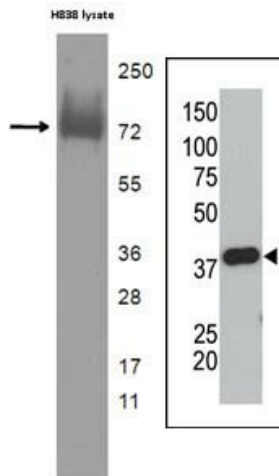
SUMO-1, SMT3C, SMT3H3, PIC1, UBL1, GMP1, Sentrin, SUMO-2, SMT3B, SMT3H2, HSMT3, Sentrin-2, SUMO-3, SMT3 homolog 1, SMT3H1

Note:

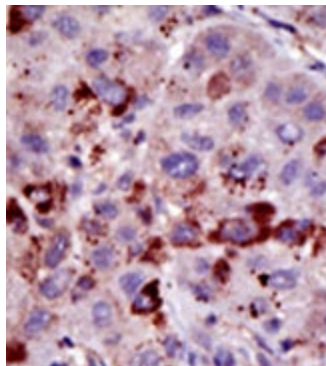
Calculated MW: 11557 Da (SUMO1), 10871 Da (SUMO2) and 11637 Da (SUMO3).

Protein Families:

Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Product images:

The Pan SUMO Antibody is used in Western blot to detect SUMO1 in GST-Sumo1 protein bacterial lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.