

# Product datasheet for AP06463PU-N

## Sumo 1 (SUMO1) Rabbit Polyclonal Antibody

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Sumo1 protein. (region surrounding Ser2)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS- PAGE)
Conjugation:	Unconjugated
Storage:	Store 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.
Predicted Protein Size:	~ 12 kDa
Gene Name:	small ubiquitin-like modifier 1
Database Link:	<u>Entrez Gene 7341 Human</u> <u>P63165</u>



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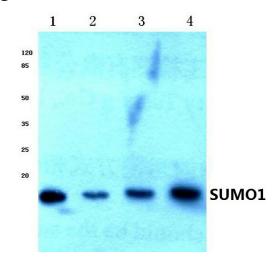
#### **GRIGENE** Sumo 1 (SUMO1) Rabbit Polyclonal Antibody – AP06463PU-N

Background:The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, 2, and 3, belong<br/>to the ubiquitin-like protein family. Like ubiquitin, the SUMO proteins are synthesized as<br/>precursor proteins that undergo processing before conjugation to target proteins. Also, both<br/>utilize the E1, E2, and E3 cascade enzymes for conjugation. However, SUMO and ubiquitin<br/>differ with respect to targeting. Ubiquitination predominantly targets proteins for<br/>degradation, whereas sumoylation targets proteins to a variety of cellular processing,<br/>including nuclear transport, transcriptional regulation, apoptosis, and protein stability. The<br/>unconjugated SUMO-1, 2, and 3 proteins are approximately 11 kDa in mass and localize to<br/>the nuclear membrane, nuclear bodies, and cytoplasm, respectively. SUMO-1 utilizes Ubc9 for<br/>conjugation to several target proteins, which include IkBα, MDM2, p53, PML, and RanGap1.<br/>SUMO-2 and 3 contribute to a greater percentage of protein modification than does SUMO-1,<br/>and unlike SUMO-1, they can form polymeric chains. In addition, SUMO-3 regulates Amyloid<br/>β generation and may be critical in the onset or progression of Alzheimer's disease.

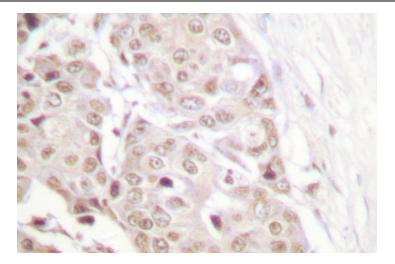
Synonyms:

SMT3C, SMT3H3, UBL1, GMP1, SMT3 homolog 3, Sentrin

#### **Product images:**



Western blot (WB) analysis of SUMO1antibody (Cat.-No.: AP06463PU-N) at 1/500 dilution Lane 1:HEK293T whole cell lysate Lane 2:Hela whole cell lysate Lane 3:Mouse kidney tissue lysate Lane 4:Rat liver tissue lysate

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Immunohistochemistry (IHC) analyzes of Sumo1 antibody (Cat.-No.: AP06463PU-N) in paraffinembedded human breast carcinoma tissue.

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