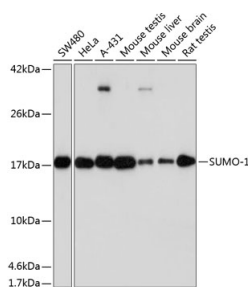


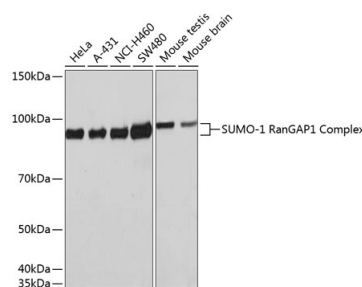
<b>Cat. No:</b>	AB-84756
<b>Conjugate:</b>	Unconjugated
<b>Size:</b>	100 ug
<b>Clone:</b>	POLY
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Immunogen:</b>	A synthetic peptide corresponding to a sequence within amino acids 1-101 of human Sumo 1.
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	Western Blot: 1:500 - 1:1000 Immunohistochemistry (paraffin-embedded tissues): 1:50 - 1:200 Immunofluorescence: 1:50 - 1:200 Immunocytochemistry: 1:50 - 1:200
<b>Molecular Weight:</b>	17kDa/80kDa
<b>Purification:</b>	Affinity purification
<b>Synonyms:</b>	DAP1; GMP1; PIC1; SMT3; UBL1; OFC10; SENP2; SMT3C; SMT3H3

**Background:** This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized.

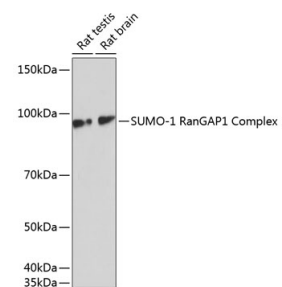
<b>Form:</b>	Liquid
<b>Buffer:</b>	PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles..



Western blot analysis of extracts of various cell lines, using SUMO1 antibody



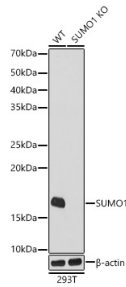
Western blot analysis of extracts of various cell lines, using SUMO1 antibody



Western blot analysis of extracts of various cell lines, using SUMO1 antibody

at 1:1000  
dilution.

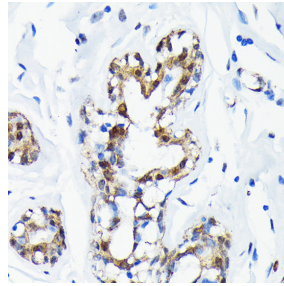
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL West Pico Plus.  
Exposure time: 60s.



Western blot analysis of extracts from wild type (WT) and SUMO1 knockout (KO) 293T cells, using SUMO1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL West Pico Plus.  
Exposure time: 10s.

at 1:1000  
dilution.

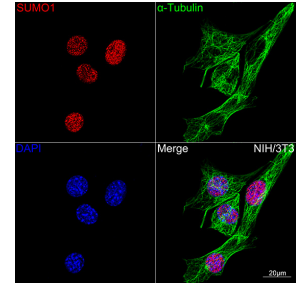
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL West Pico Plus.  
Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded human breast cancer using SUMO1 Rabbit pAb at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

at 1:1000  
dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL West Pico Plus.  
Exposure time: 1min.



Confocal imaging of NIH/3T3 cells using [KO Validated] SUMO1 Rabbit pAb (dilution 1:100) (Red). The cells were counterstained with alpha-Tubulin Mouse mAb (dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.

## References:

References for [KO Validated] SUMO1 Rabbit pAb

Journal: PLoS Pathog

Application: WB

IF: 6.82

Species: Homo sapiens

PMID: 34871326

Title: RSK1 SUMOylation is required for KSHV lytic replication

Product: [KO Validated] SUMO1 Rabbit pAb

Journal: Technol Cancer Res Treat

Application: WB

IF: 3.399

Species: Homo sapiens

PMID: 34918563

Title: MicroRNA-133b Inhibits nTumor Cell Proliferation, Migration and Invasion by Targeting SUMO1 in Endometrial Carcinoma

References for [KO Validated] SUMO1 Rabbit pAb

Journal: PLoS pathogens

Application: WB

IF: 7.46

Species: Homo sapiens

PMID: 35482828

Title: The SUMO E3 ligase activity of ORF45 determines KSHV lytic replication

References for [KO Validated] SUMO1 Rabbit pAb

Journal:Molecular plant

Application:IP

IF:21.94

Species:N.benthamiana

PMID:36597359

Title:SUMOylation-modified Pelota-Hbs1 RNA surveillance complex restricts the infection of potyvirids in plants

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