

Rabbit anti-Human SUMO1 Monoclonal Antibody | anti-SUMO1 antibody

[KO Validated] SUMO1 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28492	Rabbit	Human	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

SUMO1; Monoclonal Antibody; [KO Validated] SUMO1 Rabbit mAb; DAP1; GMP1; PIC1; SMT3; UBL1; OFC10; SENP2; SMT3C; SMT3H3; O1; anti-SUMO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	MSDQEAKPST EDLGDKKEGE YIKLKVIGQD SSEIHFVKVM TTHLKKLKES YCQRQGVPMN SLRFLFEGQR IADNHTPKEL GMEEDVIEV YQEQTGGHST V
Applicable Applications for anti-SUMO1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:1000-1:2000 IHC-P: 1:2000-1:10000 IF/ICC: 1:200-1:400 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-101 of human Sumo 1 (P63165).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



ICC (Immunocytochemistry)

Confocal imaging of NIH/3T3 cells using [KO Validated] SUMO1 Rabbit mAb (AAA28492,dilution 1:100)(Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



IHC (Immunohistochemistry)

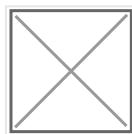
Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using [KO Validated] SUMO1 Rabbit mAb (AAA28492) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

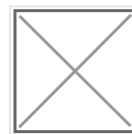
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KO Validated] SUMO1 Rabbit mAb (AAA28492) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using [KO Validated] SUMO1 Rabbit mAb (AAA28492) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using [KO Validated] SUMO1 Rabbit mAb (AAA28492) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**WB (Western Blot)**

Western blot analysis of lysates from wild type(WT) and SUMO1 knockout (KO) 293T cells, using [KO Validated] SUMO1 Rabbit mAb (AAA28492) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

ADDITIONAL INFORMATION

Related Product Information for anti-SUMO1 antibody	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.
Product Categories/Family for anti-SUMO1 antibody	Epigenetics Nuclear Signaling ; RNA Binding ; Cell Biology Developmental Biology ; Autophagy ; Ubiquitin ; Endocrine Metabolism ; Mitochondrial metabolism ; Immunology Inflammation ; Jak-Stat-IL-6 Receptor Signaling Pathway ; NF-kB Signaling Pathway ; Cardiovascula

NCBI AND UNIPROT INFORMATION

NCBI GI #	54792065
NCBI GeneID	7341
NCBI Accession #	NP_001005781.1
NCBI GenBank Nucleotide #	NM_001005781.1
UniProt Accession #	P63165 ; P55856 ; Q6FGG0 ; Q6NZ62 ; Q93068 ; B2R4I5
Molecular Weight	Calculated MW: 12kDa Observed MW: 17kDa/80kDa
UniProt Protein Name	Small ubiquitin-related modifier 1
UniProt Gene Name	SUMO1
UniProt Synonym Gene Names	SMT3C; SMT3H3; UBL1; SUMO-1; GMP1; Smt3C
UniProt Entry Name	SUMO1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/sumo1-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/28492>