

Rabbit SUMO1 Polyclonal Antibody | anti-SUMO1 antibody

SUMO1 Antibody (C-term)

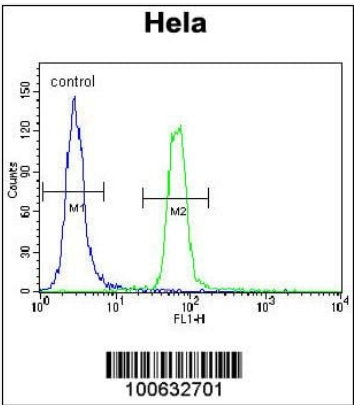
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285034	Rabbit	Human (Predicted Reactivity: Bovine, Mouse, Pig, Rat)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

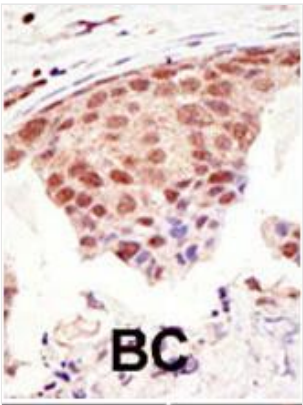
SUMO1; Polyclonal Antibody; SUMO1 Antibody (C-term); Small ubiquitin-related modifier 1; SUMO-1; GAP-modifying protein 1; GMP1; SMT3 homolog 3; Sentrin; Ubiquitin-homology domain protein PIC1; Ubiquitin-like protein SMT3C; Smt3C; Ubiquitin-like protein UBL1; SMT3C; SMT3H3; UBL1; anti-SUMO1 antibody

PRODUCT SPECIFICATIONS

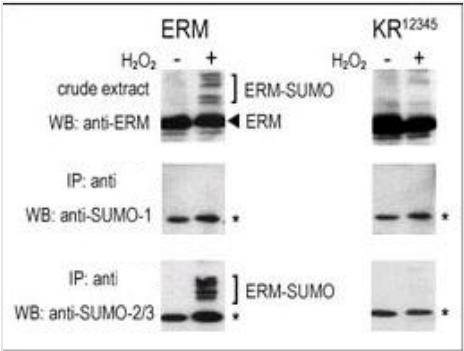
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Pig, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SUMO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-86 amino acids from the C-terminal region of human SUMO1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	55-86
Sequence Length	76
Applicable Applications for anti-SUMO1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



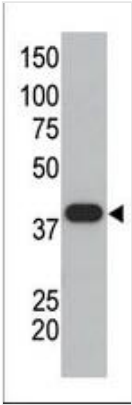
FCM/FACS (Flow Cytometry)
SUMO1 Antibody (C-term) flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
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. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
COS-7 cells were transfected for 24 hrs with a plasmid expressing DYKDDDDK-ERM (left panels) or DYKDDDDK-ERM KR12345 (right panels). Untreated (-) and H₂O₂-treated (+) cells were collected for immunoblot analysis. Top panels: cell lysates probed by western blot (WB) with an anti-ERM antibody. Center panels: cell lysates immunoprecipitated (IP) with an anti-DYKDDDDK antibody followed by WB with AAA285034 SUMO-1 antibody. Bottom panels: cell lysates immunoprecipitated with an anti-DYKDDDDK antibody followed by WB with AP1224a SUMO-2/3 antibody. (*) represents immunoprecipitated ERM-like forms recognized by anti-SUMO antibodies.



WB (Western Blot)
The anti-SUMO1 polyclonal antibody is used in Western blot to detect GST-SUMO1 fusion protein.

ADDITIONAL INFORMATION

Related Product Information for anti-SUMO1 antibody	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, TNFR1, Topo-I, Topo-II, PARK2, WRN, Sp100, Ikb-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.
Product Categories/Family for anti-SUMO1 antibody	Cardiovascular; Cell Biology; Metabolism
References	Yang, S.H., et al., Mol. Cell 13(4):611-617 (2004). Bailey, D., et al., J. Biol. Chem. 279(1):692-703 (2004). Ling, Y., et al., Nucleic Acids Res. 32(2):598-610 (2004). Pountney, D.L., et al., Exp. Neurol. 184(1):436-446 (2003). Ohshima, T., et al., J. Biol. Chem. 278(51):50833-50842 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	54792065
NCBI GeneID	7341
NCBI Accession #	NP_001005781.1; NP_001005782.1; NP_003343.1
NCBI GenBank Nucleotide #	NM_001005781.1
UniProt Accession #	P63165; P55856; Q6FGG0; Q6NZ62; Q93068; A8MUS8; B2R4I5
Molecular Weight	11557
NCBI Official Full Name	small ubiquitin-related modifier 1 isoform a
NCBI Official Synonym Full Names	small ubiquitin-like modifier 1
NCBI Official Symbol	SUMO1
NCBI Official Synonym Symbols	DAP1; GMP1; PIC1; SMT3; UBL1; OFC10; SENP2; SMT3C; SMT3H3
NCBI Protein Information	small ubiquitin-related modifier 1
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://www.aaabiotech.com/polyclonal/sumo1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/285034>