

Product datasheet for **AP11217PU-N**

Sumo 1 (SUMO1) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blot: 1/100-1/500. Immunohistochemistry: 1/50-1/100. Immunofluorescence (see Ref.6).
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human SUMO1.
Specificity:	This antibody is specific to SUMO1 (C-term).
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:

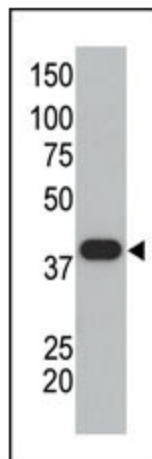
Covalent modification of target lysines by SUMO (small ubiquitin-like modifier) modulates processes such as protein localization, transcription, nuclear transport, mitosis, DNA replication and repair, signal transduction, and viral reproduction. SUMO does not seem to be involved in protein degradation 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, IκB-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:

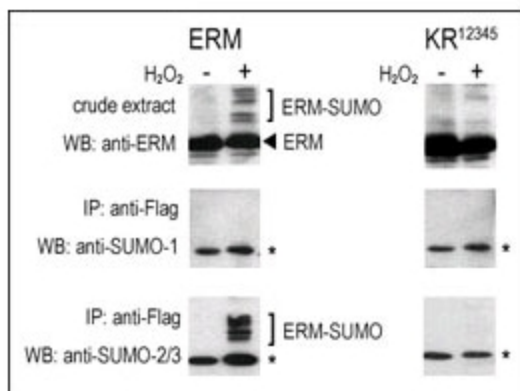
SMT3C, SMT3H3, UBL1, GMP1, SMT3 homolog 3, Sentrin

Note:

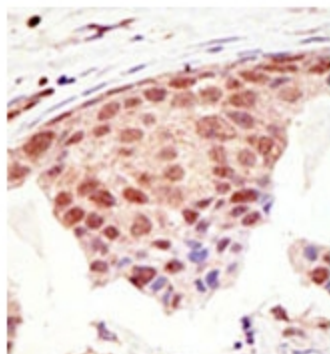
Predicted MW: 11.557 kDa

Product images:


western Blot analysis using anti-SUMO1 polyclonal antibody to detect GST-SUMO1 fusion protein.



COS-7 cells were transfected for 24 hrs with a plasmid expressing FLAG-ERM (left panels) or FLAG-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-FLAG antibody followed by WB with SUMO-1 antibody. Bottom panels: cell lysates immunoprecipitated with an anti-FLAG antibody followed by WB with N SUMO-2/3 antibody. (*) represents immunoprecipitated ERM-like forms recognized by anti-SUMO antibodies.



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.