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Product datasheet for AP11224PU-N

Sumo 3 (SUMO3) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blot: 1/100-1/500. Immunohistochemistry: 1/50-1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected within C-terminal region of human SUMO2/3.
Specificity:	This antibody is specific to SUMO2/3 (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 3
Database Link:	Entrez Gene 6612 Human P55854

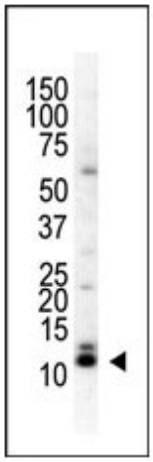
View online »

Background: SUMO2 and SUMO3 are members of the SUMO (small ubiquitin-like modifier) protein family. This protein family 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. In vertebrates, three members of the SUMO family have been described, SUMO 1 and the functionally distinct homologues SUMO 2 and SUMO 3. SUMO modification sites present in the N terminal regions of SUMO 2 and SUMO 3 are utilized by SAE1/SAE2 (SUMO E1) and Ubc9 (SUMO E2) to form polymeric chains of SUMO 2 and SUMO 3 on protein substrates, a property not shared by SUMO 1.

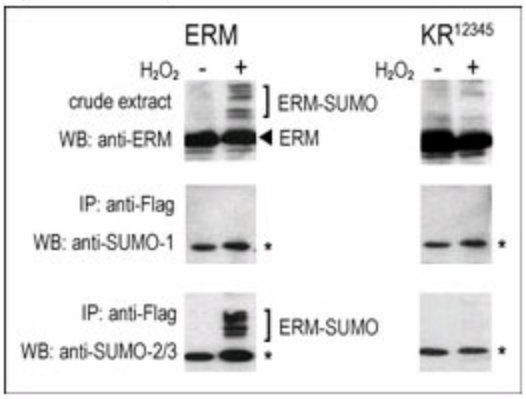
Synonyms: SUMO-2, SMT3B, SMT3H2, HSMT3, Sentrin-2, SUMO-3, SMT3 homolog 1, SMT3H1

Note: Predicted MW: 11.637 kDa

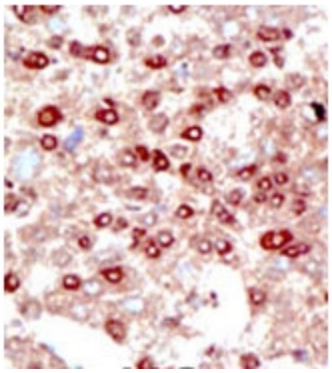
Product images:



Western Blot analysis using anti-SUMO2/3 C-term Pab to detect SUMO2/3 in HeLa cell lysate.



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 -N SUMO-1 antibody. Bottom panels: cell lysates immunoprecipitated with an anti-FLAG antibody followed by WB with 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.