Product Name: Cleaved-SUMO-2/3 (G93) Rabbit Polyclonal Antibody
Catalog #: APRab09030

Summary

Production Name	Cleaved-SUMO-2/3 (G93) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA,CoIP
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SUMO2 SUMO3
Alternative Names	SUMO2; SMT3A; SMT3H2; Small ubiquitin-related modifier 2; SUMO-2; HSMT3; SMT3 homolog 2; SUMO-3; Sentrin-2; Ubiquitin-like protein SMT3A; Smt3A
Gene ID	6613.0
SwissProt ID	P61956/P55854.The antiserum was produced against synthesized peptide derived from human SUMO2/3. AA range:44-93

Application

Dilution Ratio	WB 1:500-1:2000, ELISA 1:20000, IP 1:50-100, Not yet tested in other applications.
Molecular Weight	11kDa

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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 two amino acids of the carboxy-terminus have been cleaved off. Numerous pseudogenes have been reported for this gene. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],function:Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Covalent attachment to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4.,online information:SUMO protein entry,PTM:Cleavage of precursor form by SENP1 or SENP2 is necessary for function.,PTM:Cleavage of precursor form by SENP1, SENP2 or SENP5 is necessary for function.,PTM:Polymeric chains can be formed through Lys-11 cross-linking.,similarity:Belongs to the ubiquitin family. SUMO subfamily.,similarity:Contains 1 ubiquitin-like domain.,subcellular location:Nuclear bodies.,subunit:Homotrimer (Potential). Crystal packing analysis suggests a possible trimeric assembly, of which the biological significance remains to be determined. Interacts with SAE2 and UBE2I. Covalently attached to a number of proteins. Interacts with PELP1.,subunit:Interacts with SAE2 and UBE2I. Covalently attached to a number of proteins.,tissue specificity:Broadly expressed.,tissue specificity:Expressed predominantly in liver.,

Research Area

Image Data

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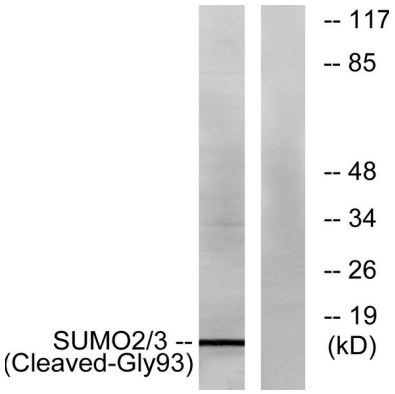
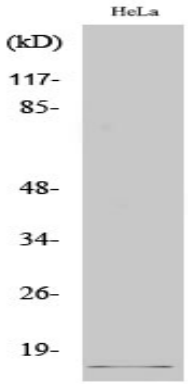


Western blot analysis of lysates from HeLa cells, using SUMO2/3 (Cleaved-Gly93) Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Cleaved-SUMO-2/3 (G93) Polyclonal Antibody

Note

For research use only.