



Cleaved-SUMO-2/3 (G93) Polyclonal Antibody

Catalog No	YP-Ab-02298
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA;CoIP
Gene Name	SUMO2 SUMO3
Immunogen	The antiserum was produced against synthesized peptide derived from human SUMO2/3. AA range:44-93
Specificity	Cleaved-SUMO-2/3 (G93) Polyclonal Antibody detects endogenous levels of fragment of activated SUMO-2/3 protein resulting from cleavage adjacent to G93.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. IP 1:50-100 Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HSMT3;SMT3B;SUMO3;Smt3A;SMT3H2;SUMO2/3;SUMO-2/3;SUMO2 SUMO3; Small ubiquitin-related modifier 2;SUMO2;SUMO-2;SMT3 homolog 2;SUMO-3; Sentrin-2;Ubiquitin-like protein SMT3A
Observed Band	11kD
Calculated Molecular Weight	11kD
Cell Pathway	Nucleus. Nucleus, PML body.
Tissue Specificity	Broadly expressed.
Function	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. S

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],

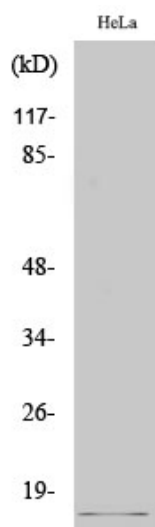
matters needing attention

Avoid repeated freezing and thawing!

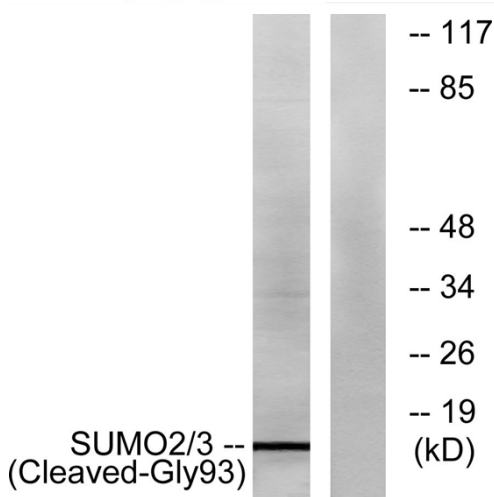
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



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



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.