



SUMO2 Monoclonal Antibody

Catalog No	YP-mAb-18045
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SUMO2 SMT3A SMT3H2
Immunogen	Synthesized peptide derived from human SUMO2 AA range: 45-95
Specificity	This antibody detects endogenous levels of human SUMO2
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SUMO2;SMT3B;Small ubiquitin-related modifier 2;Sentrin-2;Sentrin2;SUMO2 SMT3A SMT3H2;Small ubiquitin-related modifier 2 (SUMO-2;HSMT3;SMT3 homolog 2;SUMO-3;Ubiquitin-like protein SMT3A;Smt3A)
Observed Band	11-20 kDa
Calculated Molecular Weight	11 kDa
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