SUMO2 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	SUMO2, Polyclonal Antibody
Full Product Name	SUMO2 Polyclonal Antibody
Product Gene Name	anti-SUMO2 antibody
Product Synonym Names	SUMO2 SMT3A SMT3H2
Clonality	Polyclonal
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
OMIM	603042
3D Structure	ModBase 3D Structure for P61956
Immunogen	Synthesized peptide derived from human SUMO2
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-SUMO2 antibody	MBS8537570 is an antibody targeting SUMO2. Also known as SUMO2 Polyclonal Antibody. Reactive in Human, Mouse, Rat. This antibody detects endogenous levels of human SUMO2
Other Notes	Small volumes of anti-SUMO2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SUMO2. It may not necessarily be applicable to this product.

NCBI GI #	54792071
NCBI GeneID	6613
NCBI Accession #	NP_001005849.1
UniProt Primary Accession #	P61956
UniProt Related Accession #	P61956
GenBank Nucleotide #	NP_001005849.1
NCBI Official Full Name	small ubiquitin-related modifier 2 isoform b
NCBI Official Synonym Full Names	small ubiquitin like modifier 2
NCBI Official Symbol	SUMO2
NCBI Official Synonym Symbols	HSMT3; SMT3B; SUMO3; Smt3A; SMT3H2
UniProt Protein Name	Small ubiquitin-related modifier 2
UniProt Synonym Protein Names	HSMT3; SMT3 homolog 2; SUMO-3; Sentrin-2; Ubiquitin-like protein SMT3A
Protein Family	Small ubiquitin-related modifier
UniProt Gene Name	SUMO2

UniProt Synonym Gene Names	SMT3A; SMT3H2; SUMO-2; Smt3A
UniProt Entry Name	SUMO2_HUMAN
NCBI Protein Information	small ubiquitin-related modifier 2
NCBI Summary for SUMO2	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]
UniProt Comments for SUMO2	SUMO2: Ubiquitin-like protein that can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptide bond 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. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Polymeric SUMO2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. 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. Interacts with USP25; the interaction sumoylates USP25. Broadly expressed. Belongs to the ubiquitin family. SUMO subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin-like modifier Chromosomal Location of Human Ortholog: 17q25.1 Cellular Component: nucleoplasm; PML body; nucleus Molecular Function: protein binding; ubiquitin protein ligase binding Biological Process: cellular protein metabolic process; protein sumoylation; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; post-translational protein modification
Research Articles on SUMO2	**1.** Noncovalent structure of SENP1 in complex with SUMO2 has been described.
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