SUMO2/3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SUMO2/3, Polyclonal Antibody
Full Product Name	SUMO2/3, CT (SUMO3, SMT3B, SMT3H1, Small ubiquitin-related modifier 3, SMT3 homolog 1, SUMO-2, Ubiquitin-like protein SMT3B) (MaxLight 490)
Product Gene Name	anti-SUMO2/3 antibody
Product Synonym Gene Name	SUMO2; SUMO3
Product Synonym Names	SUMO3; SMT3B; SMT3H1; Small ubiquitin-related modifier 3; SMT3 homolog 1; SUMO-2; Ubiquitin-like protein SMT3B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	103
OMIM	602231
3D Structure	ModBase 3D Structure for P55854
Immunogen	SUMO2/3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58~88 amino acids within C-terminal region of human SUMO2/3.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-SUMO2/3 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-SUMO2/3 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-SUMO2/3 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-SUMO2/3 antibody	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.
Product References and Citations for anti-SUMO2/3 antibody	Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Lapenta, V., et al., Genomics 40(2):362-366 (1997).
Other Notes	Small volumes of anti-SUMO2/3 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.
Searchable Terms for SUMO2/3 purchase	MBS6352616 is an antibody targeting SUMO2/3. Also known as SUMO2/3, CT (SUMO3, SMT3B, SMT3H1, Small ubiquitin-related modifier 3, SMT3 homolog 1, SUMO-2, Ubiquitin-like protein SMT3B) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SUMO2/3. It may not necessarily be applicable to this product.

NCBI GI #	23503102
NCBI GeneID	6612
NCBI Accession #	P55854.2
UniProt Primary Accession #	P55854
UniProt Secondary Accession #	Q53HI9; Q6FGD4; Q9BWR4; B2R5X4; B4DUW4
UniProt Related Accession #	P55854
NCBI Official Full Name	Small ubiquitin-related modifier 3
NCBI Official Synonym Full Names	small ubiquitin-like modifier 3
NCBI Official Symbol	SUMO3
NCBI Official Synonym Symbols	SMT3A; Smt3B; SMT3H1; SUMO-3
UniProt Protein Name	Small ubiquitin-related modifier 3
UniProt Synonym Protein Names	SMT3 homolog 1; SUMO-2; Ubiquitin-like protein SMT3A
UniProt Gene Name	SUMO3
UniProt Synonym Gene Names	SUMO-3Curated
UniProt Entry Name	SUMO3_HUMAN
NCBI Protein Information	small ubiquitin-related modifier 3; ubiquitin-like protein SMT3B; SMT3 suppressor of mif two 3 homolog 1; SMT3 suppressor of mif two 3 homolog 3
NCBI Summary for SUMO2/3	This gene encodes a member of the small ubiquitin-related modifier (SUMO) family of eukaryotic proteins. The encoded protein is covalently conjugated to other proteins via a post-translation modification known as sumoylation. Sumoylation may play a role in a wide variety of cellular processes, including nuclear transport, DNA replication and repair, mitosis, transcriptional regulation, and signal transduction. Alternatively spliced transcript variants encoding distinct proteins have been described. [provided by RefSeq, Feb 2014]

UniProt Comments for SUMO2/3	SUMO3: 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. Covalently attached to a number of proteins. Interacts with USP25 (via ts SIM domain); the interaction sumoylates USP25 and inhibits its ubiquitin hydrolyzing activity. Interacts with SAE2 and UBE2I. Expressed predominantly in liver. Belongs to the ubiquitin family. SUMO subfamily. Protein type: Ubiquitin-like modifier Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: kinetochore; nucleoplasm; PML body; cytoplasm; nucleus Molecular Function: protein binding; SUMO ligase activity Biological Process: cellular protein metabolic process; protein sumoylation; post-translational protein modification
Research Articles on SUMO2/3	**1.** In human cells, Ehrlichia chaffeensis TRP120 was selectively conjugated with SUMO2/3 isoforms.
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