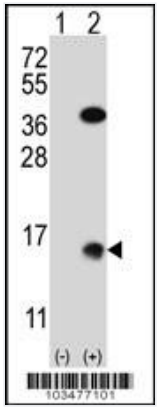
SUMO2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SUMO2, Polyclonal Antibody
Full Product Name	SUMO2, Xenopus, NT (sumo2-a, smt3h2, Small ubiquitin-related modifier 2-A) (APC)
Product Gene Name	anti-SUMO2 antibody
Product Synonym Gene Name	sumo2-a
Product Synonym Names	sumo2-a; smt3h2; Small ubiquitin-related modifier 2-A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Xenopus
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A 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: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	10,820 Da
3D Structure	ModBase 3D Structure for Q7ZTK7
Immunogen	Xenopus SUMO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1~30 amino acids from the N-terminal region of Xenopus SUMO2.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SUMO2 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-SUMO2 antibody	Western Blot (WB), FLISA
Application Notes for anti-SUMO2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SUMO2 antibody	SUMO2 is a ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. SUMO2 does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. This protein 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 E3 ligases such as PIAS isoforms 1-4.
Product References and Citations for anti-SUMO2 antibody	Muller S, et al., Nat Rev Mol Cell Biol. 2001 2(3):202-10 Review. Hochstrasser M. Cell. 2001 107(1):5-8. Review. Kahyo T, et al., Mol Cell. 2001 Sep;8(3):713-8. Yeh ET, et al., Gene. 2000 May 2;248(1-2):1-14. Review. Keane, M.M., et al., Oncogene 18 (22), 3365-3375 (1999).

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.
Searchable Terms for SUMO2 purchase	MBS6352600 is an antibody targeting SUMO2. Also known as SUMO2, Xenopus, NT (sumo2-a, smt3h2, Small ubiquitin-related modifier 2-A) (APC). Reactive in Xenopus. Host: Rabbit.



Western Blot (WB) of anti-SUMO2 antibody
Western blot analysis of SUMO2 (arrow) using rabbit polyclonal SUMO2 Antibody (M1) (Xenopus). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SUMO2 gene.

ADDITIONAL DETAILS

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

NCBI GI #	147906503
NCBI GeneID	379777
NCBI Accession #	NP_001080085.1
UniProt Primary Accession #	Q7ZTK7
UniProt Related Accession #	Q7ZTK7
GenBank Nucleotide #	NM_001086616.1
NCBI Official Full Name	small ubiquitin-related modifier 2-A
NCBI Official Synonym Full Names	small ubiquitin-like modifier 2 L homeolog
NCBI Official Symbol	sumo2.L
NCBI Official Synonym Symbols	hsmt3; smt3b; sumo2; smt3h2; sumo-2; sumo2-a; sumo2-b
UniProt Protein Name	Small ubiquitin-related modifier 2-A
Protein Family	Small ubiquitin-related modifier
UniProt Gene Name	sumo2-a
UniProt Synonym Gene Names	smt3h2; SUMO-2-A
NCBI Protein Information	small ubiquitin-related modifier 2-A
UniProt Comments for 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. 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.

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