

## Anti-SUMO2 antibody



<b>Description</b>	Unconjugated Rabbit polyclonal to SUMO2
<b>Model</b>	STJ190176
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, WB
<b>Immunogen</b>	Synthesized peptide derived from human SUMO2 protein.
<b>Immunogen Region</b>	10-90aa
<b>Gene ID</b>	<a href="#">6613</a>
<b>Gene Symbol</b>	<a href="#">SUMO2</a>
<b>Dilution range</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Specificity</b>	SUMO2 Polyclonal Antibody detects endogenous levels of protein.
<b>Tissue Specificity</b>	Broadly expressed.
<b>Purification</b>	SUMO2 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Small ubiquitin-related modifier 2 SUMO-2 HSMT3 SMT3 homolog 2 SUMO-3 Sentrin-2 Ubiquitin-like protein SMT3B Smt3B
<b>Molecular Weight</b>	10 kDa
<b>Clonality</b>	Polyclonal

<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/condensedbook/condensedbook.cgi?acc=HGNC:11125OMIM:603042">HGNC:11125OMIM:603042</a>
<b>Alternative Names</b>	Small ubiquitin-related modifier 2 SUMO-2 HSMT3 SMT3 homolog 2 SUMO-3 Sentrin-2 Ubiquitin-like protein SMT3B Smt3B
<b>Function</b>	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, CBX4 or ZNF451 . 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 . Plays a role in the regulation of sumoylation status of SETX .
<b>Cellular Localization</b>	Nucleus. Nucleus, PML body.
<b>Post-translational Modifications</b>	Polymeric chains can be formed through Lys-11 cross-linking. Polymeric SUMO2 chains undergo 'Lys-6'-, 'Lys-11'-, 'Lys-48'- and 'Lys-63'-linked polyubiquitination by RNF4. Cleavage of precursor form by SENP1 or SENP2 is necessary for function.; Monoubiquitinated N-terminally by UBE2W, which primes it for RNF4-dependent polyubiquitination by the UBE2V1-UBE2N heterodimer.