Anti-SUMO2 antibody

Description	Unconjugated Rabbit polyclonal to SUMO2

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

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol,and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:11125OMIM:603042
Alternative Names	Small ubiquitin-related modifier 2 SUMO-2 HSMT3 SMT3 homolog 2 SUMO-3 Sentrin-2 Ubiquitin-like protein SMT3B Smt3B
Function	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 .
Cellular Localization	Nucleus. Nucleus, PML body.
Post-translational Modifications	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.