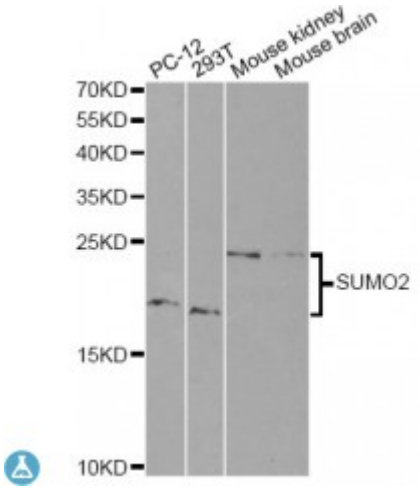
Anti-SUMO2 Antibody



Description	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.

Model	STJ116151
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IHC, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-95 of human SUMO2 (NP_008868.3).
Gene ID	6613
Gene Symbol	SUMO2
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200
Tissue Specificity	Broadly expressed
Purification	Affinity purification
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	10.871 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:11125OMIM:603042Reactome:R-HSA-196791
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 ,
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,