www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

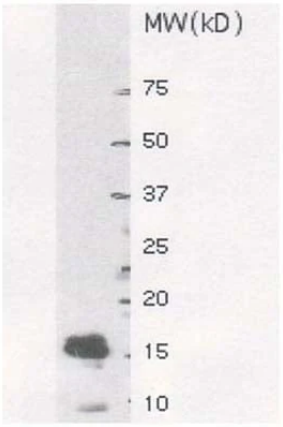
Anti-Small ubiquitin-related modifier 1 (SUMO-1) Antibody

Product Details

Available Variants	100 µL (SKU:S-064-100)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Sheep
Format	Whole serum
Physical State	Lyophilized
Applications	IHC, WB
Dilution Ranges	WB: 1:4000-1:8000 IHC: 1:2000-1:4000
Species Reactivity	Human, Rat
Immunogen	A synthetic peptide (AKPSTEDLGDKKEGEY) as part of human SUMO-1 peptide (aa: 6-21) conjugated to diphtheria toxoid has been used as the immunogen. This antigen is homologous with SUMO-1 of rat.
Specificity	This antiserum recognizes human SUMO-1 and not ubiquitin. This antiserum is known to cross react with rat and human SUMO-1.
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20°C for a higher stability, and at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
UniProt ID	P63165 UniProt Summary: Ubiquitin-like protein that can be covalently attached to proteins as a monomer or 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 E3

	ligases such as PIAS1-4, RANBP2 or CBX4. 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. Involved for instance in targeting RANGAP1 to the nuclear pore complex protein RANBP2. Covalently attached to the voltage-gated potassium channel KCNB1; this modulates the gating characteristics of KCNB1. Polymeric SUMO1 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. May also regulate a network of genes involved in palate development. Covalently attached to ZFHX3.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	7341

Product Images



Western blot detection of recombinant SUMO-1 protein using Sheep antibody to SUMO-1 (6-21): ws, (catalogue no. S-064-100) at a dilution of 1:8000. The protein sample was 1 µl of E.Coli cell lysate containing approximately 50 ng of recombinant SUMO-1 protein. This antibody recognises a major band of approximately 17 kDa corresponding to SUMO-1, as well as a smaller minor band of 8 kDa.