SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Sumo 3 antibody

Catalog Number: SL15495R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Sumo 3
Immunogen:	KLH conjugated synthetic peptide derived from human Sumo3: 1-80/103
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Chicken,Dog,Pig,Cow)
Predicted MW.:	10.5kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	SUMO proteins, such as SUMO3, and ubiquitin (see MIM 191339) posttranslationally modify numerous cellular proteins and affect their metabolism and function. However, unlike ubiquitination, which targets proteins for degradation, sumoylation participates in a number of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability (Su and Li, 2002 [PubMed 12383504]). **Function:** Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. 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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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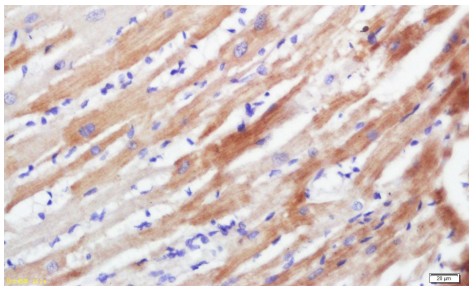
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	promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4. **Subunit:** Covalently attached to a number of proteins (By similarity). Interacts with USP25 (via ts SIM domain); the interaction sumoylates USP25 and inhibits its ubiquitin hydrolyzing activity. Interacts with SAE2 and UBE2I. **Subcellular Location:** Cytoplasm. Nucleus. Nucleus, PML body **Tissue Specificity:** Expressed predominantly in liver. **Post-translational modifications:** Polymeric chains can be formed through Lys-11 cross-linking. Cleavage of precursor form by SENP1, SENP2 or SENP5 is necessary for function. **Similarity:** Belongs to the ubiquitin family. SUMO subfamily. Contains 1 ubiquitin-like domain. **Database links:** **Entrez Gene:** 6612 Human **Entrez Gene:** 20610 Mouse **Entrez Gene:** 499417 Rat Omim: 602231 Human **SwissProt:** P55854 Human **SwissProt:** Q9Z172 Mouse **SwissProt:** Q5XIF4 Rat **Unigene:** 474005 Human **Unigene:** 24433 Mouse **Unigene:** 154914 Rat

[VALIDATION IMAGES]



Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-Sumo 3 Polyclonal Antibody, Unconjugated(SL15495R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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