

# Cleaved-SUMO-2/3 (G93) Polyclonal Antibody

Catalog # AP63150

### Specification

# Cleaved-SUMO-2/3 (G93) Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality WB <u>P61956</u> Human, Mouse, Rat Rabbit Polyclonal

### Cleaved-SUMO-2/3 (G93) Polyclonal Antibody - Additional Information

Gene ID 6613

**Other Names** SUMO2; SMT3A; SMT3H2; Small ubiquitin-related modifier 2; SUMO-2; HSMT3; SMT3 homolog 2; SUMO-3; Sentrin-2; Ubiquitin-like protein SMT3A; Smt3A

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

**Format** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions** -20°C

# Cleaved-SUMO-2/3 (G93) Polyclonal Antibody - Protein Information

### Name SUMO2 (<u>HGNC:11125</u>)

#### 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 (PubMed:<a href="http://www.uniprot.org/citations/26524494" target="\_blank">26524494</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/26324494" target="\_blank">18408724</a>

href="http://www.uniprot.org/citations/18408734" target="\_blank">18408734</a>, PubMed:<a
href="http://www.uniprot.org/citations/18538659" target="\_blank">18538659</a>, PubMed:<a
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href="http://www.uniprot.org/citations/24105744" target="\_blank">24105744</a>).



Cellular Location Nucleus. Nucleus, PML body.

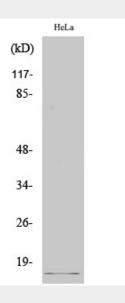
Tissue Location Broadly expressed..

### Cleaved-SUMO-2/3 (G93) Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- <u>Flow Cytomety</u>
- <u>Cell Culture</u>

### Cleaved-SUMO-2/3 (G93) Polyclonal Antibody - Images



# Cleaved-SUMO-2/3 (G93) Polyclonal Antibody - Background

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 (PubMed:26524494). 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 (PubMed:18408734, PubMed:18538659, PubMed:21965678, PubMed:9556629). Plays a role in the regulation of sumoylation status of SETX (PubMed:24105744).