

---

**Product Name: SUMO2 Mouse Monoclonal Antibody****Catalog #: AMM85947**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,ICC
<b>Reactivity</b>	Human, Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG2b
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in TBS with 0.05% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ICC 1:25-1:50
<b>Molecular Weight</b>	10.9kDa

**Antigen Information**

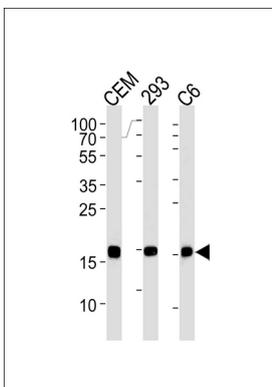
<b>Gene Name</b>	SUMO2 Small ubiquitin-related modifier 2, SUMO-2, HSMT3, SMT3 homolog 2 {ECO:0000312 HGNC:HGNC:11125}, SUMO-3, Sentrin-2, Ubiquitin-like protein SMT3B, Smt3B, SUMO2 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11125" target="_blank">HGNC:11125</a>)
<b>Alternative Names</b>	
<b>Gene ID</b>	6613.0
<b>SwissProt ID</b>	P61956
<b>Immunogen</b>	Purified His-tagged SUMO2 protein was used to produced this monoclonal antibody.

**Background**

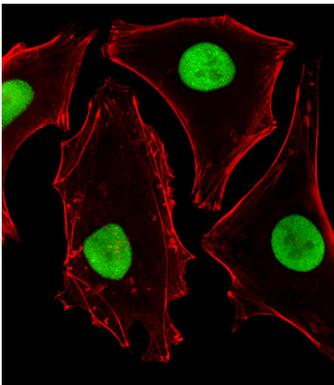
Ubiquitin-like protein that can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 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. Polymeric SUMO2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins.

## Research Area

## Image Data



SUMO2 Antibody (C-term) western blot analysis in CEM,293, rat C6 cell line lysates (35µg/lane). This demonstrates the SUMO2 antibody detected the SUMO2 protein (arrow).



Fluorescent image of HeLa cells stained with SUMO2 Antibody (C-term) (Cat#AMM85947). AMM85947 was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).