

**SUMO2 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5458****Specification**

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**SUMO2 Antibody (C-term) - Product Information**

|                   |  |
|-------------------|--|
| Application       | <b>WB,E</b>  |
| Primary Accession | <a href="#">P61956</a>   |
| Other Accession   | <a href="#">O7SZ22</a> , <a href="#">O5XIF4</a> , <a href="#">O9Z172</a> , <a href="#">P55854</a> , <a href="#">O6DI05</a> ,<br><a href="#">O5ZHQ1</a> , <a href="#">O17QV3</a> , <a href="#">P61959</a> , <a href="#">P61958</a> , <a href="#">P61957</a> ,<br><a href="#">O2PFW2</a> , <a href="#">O6DHL4</a> , <a href="#">O6LDZ8</a> , <a href="#">O5ZJM9</a> , <a href="#">P61955</a> ,<br><a href="#">O6NV25</a> , <a href="#">O6GPW2</a> , <a href="#">O7ZTK7</a> |
| Reactivity        | <b>Human</b>   |
| Predicted         | <b>Xenopus, Zebrafish, Bovine, Chicken,<br/>Hamster, Monkey, Mouse, Pig, Rat</b>   |
| Host              | <b>Rabbit</b>  |
| Clonality         | <b>Polyclonal</b>  |
| Calculated MW     | <b>H=11;M=11;R=11 KDa</b>  |
| Isotype           | <b>Rabbit IgG</b>  |
| Antigen Source    | <b>HUMAN</b>   |

**SUMO2 Antibody (C-term) - Additional Information****Gene ID** 6613**Antigen Region**  
63-93**Other Names**

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>)

**Dilution**

WB~~1:1000

**Target/Specificity**

This SUMO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-93 amino acids from the C-terminal region of human SUMO2.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SUMO2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## SUMO2 Antibody (C-term) - Protein Information

Name SUMO2 ([HGNC:11125](#))

### 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:[26524494](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/18408734), PubMed:[18538659](http://www.uniprot.org/citations/18538659), PubMed:[21965678](http://www.uniprot.org/citations/21965678), PubMed:[9556629](http://www.uniprot.org/citations/9556629)). Plays a role in the regulation of sumoylation status of SETX (PubMed:[24105744](http://www.uniprot.org/citations/24105744)).

### Cellular Location

Nucleus. Nucleus, PML body.

### Tissue Location

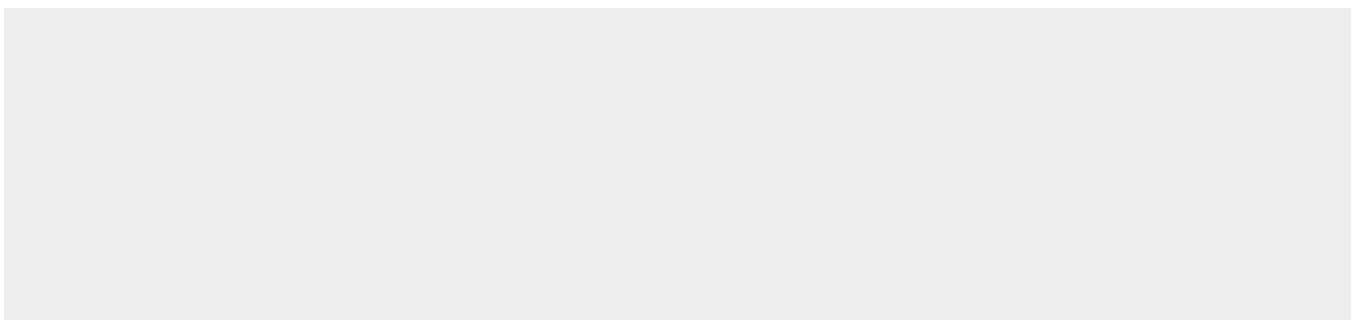
Broadly expressed..

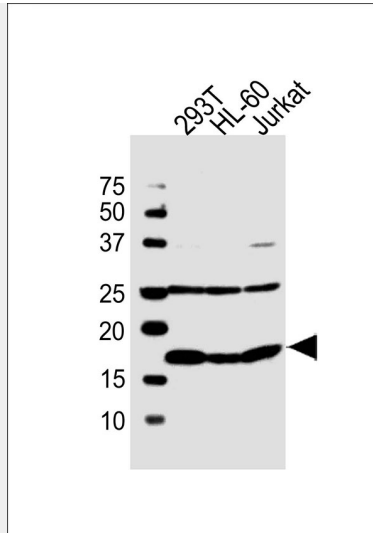
## SUMO2 Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## SUMO2 Antibody (C-term) - Images





All lanes : Anti-SUMO2 Antibody at 1:1000 dilution Lane 1: 293T whole cell lysates Lane 2: HL-60 whole cell lysates Lane 3: Jurkat whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 11 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

#### **SUMO2 Antibody (C-term) - Background**

SUMO2 is a member of the SUMO (small ubiquitin-like modifier) protein family. This protein family 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. In vertebrates, three members of the SUMO family have been described, SUMO 1 and the functionally distinct homologues SUMO 2 and SUMO 3. SUMO modification sites present in the N terminal regions of SUMO 2 and SUMO 3 are utilized by SAE1/SAE2 (SUMO E1) and Ubc9 (SUMO E2) to form polymeric chains of SUMO 2 and SUMO 3 on protein substrates, a property not shared by SUMO 1.

#### **SUMO2 Antibody (C-term) - References**

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Lapenta, V., et al., Genomics 40(2):362-366 (1997).