

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

SUMO2 Antibody (C-term) - Product Information

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

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)

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

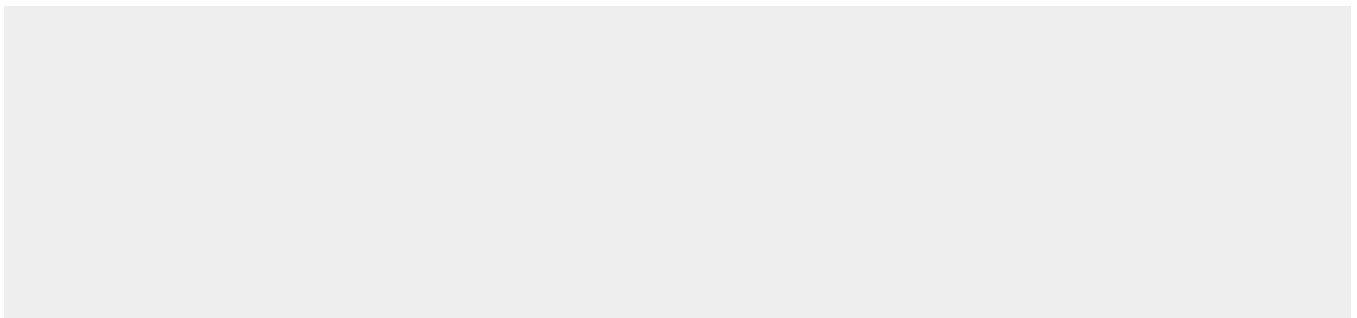
Broadly expressed..

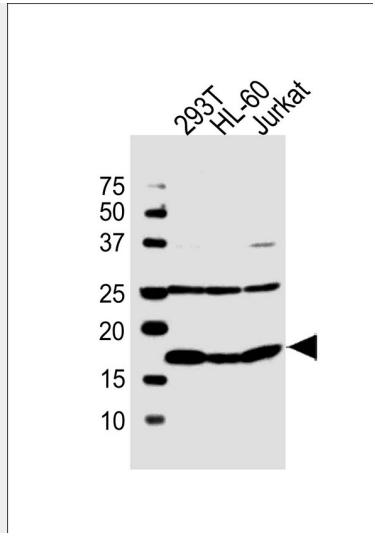
SUMO2 Antibody (C-term) - Protocols

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 μ g 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).