

**Anti-SUMO2/3 Antibody**  
Rabbit polyclonal antibody to SUMO2/3  
Catalog # AP59703

### Specification

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#### Anti-SUMO2/3 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P61956</a>
Other Accession	<a href="#">P61957</a>
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10871

#### Anti-SUMO2/3 Antibody - Additional Information

Gene ID 6613

#### Other Names

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

#### Target/Specificity

Recognizes endogenous levels of SUMO2/3 protein.

#### Dilution

WB~~WB (1/500 - 1/1000)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-SUMO2/3 Antibody - 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:<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/18408734" target="\_blank">18408734</a>, PubMed:<a href="http://www.uniprot.org/citations/18538659" target="\_blank">18538659</a>, PubMed:<a href="http://www.uniprot.org/citations/21965678" target="\_blank">21965678</a>, PubMed:<a href="http://www.uniprot.org/citations/9556629" target="\_blank">9556629</a>). Plays a role in the regulation of sumoylation status of SETX (PubMed:<a href="http://www.uniprot.org/citations/24105744" target="\_blank">24105744</a>).

#### Cellular Location

Nucleus. Nucleus, PML body.

#### Tissue Location

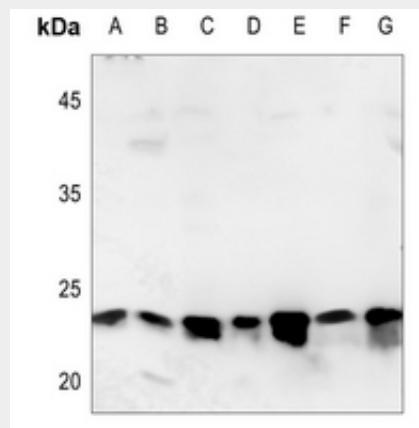
Broadly expressed..

### Anti-SUMO2/3 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

### Anti-SUMO2/3 Antibody - Images



Western blot analysis of SUMO2/3 expression in HEK293T (A), A549 (B), U2OS (C), mouse brain (D), mouse testis (E), rat brain (F), rat testis (G) whole cell lysates.

### Anti-SUMO2/3 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SUMO2/3. The exact sequence is proprietary.