

## Anti-SUMO2/3 Antibody

Rabbit polyclonal antibody to SUMO2/3 Catalog # AP59703

## Specification

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

Application Primary Accession Other Accession Reactivity Host Clonality Calculated MW WB <u>P61956</u> <u>P61957</u> Human, Mouse, Rat, Zebrafish, Pig, Bovine Rabbit Polyclonal 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** KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SUMO2/3. The exact sequence is proprietary.

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 (<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/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/21965678" target="\_blank">9556629</a>, PubMed:<a href="http://www.uniprot.org/citations/9556629" target="\_blank">9556629</a>, PubMed:<a href="http://www.uniprot.org/citations/21965678" target="\_blank">9556629</a>, PubMed:<a href="http://www.uniprot.org/citations/9556629" target="\_blank">9556629</a>, PubMed:<a href="http://www.uniprot.org/citations/2556629" target="\_blank">9556629</a>, PubMed:<a href="http://www.uniprot.org/citations/9556629" target="\_blank">9556629</a>, PubMed:<a href="http://www.uniprot.org/citations/256629" 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.

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

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.