DATASHEET

# SUMO2/3 Rabbit Polyclonal Antibody

CAT. NO. APA07570

## KEY FEATURES

| | | | |
|---|---|---|---|
| **Target** | SUMO2/3 | **Source / Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat, Bovine, Pig, Zebrafish | **Clonality** | Polyclonal |
| **Applications** | WB, IF/ICC | **Conjugation** | Unconjugated |
| **Form / Buffer** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. | **Storage** | at-20°C |

## 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, CBX4 or ZNF451 . 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 . Plays a role in the regulation of sumoylation status of SETX .

## APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

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|---|---|
| **WB** | 1:500 - 1:1000 |
| **IF/ICC** | 1:50 - 1:200 |

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

## PRODUCT OVERVIEW

| | |
|---|---|
| **Description** | Rabbit polyclonal antibody to SUMO2/3 |
| **Specificity** | Recognizes endogenous levels of SUMO2/3 protein. |
| **Antibody Type** | Primary antibody |
| **Immunogen** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SUMO2/3. The exact sequence is proprietary. |
| **Purification** | The antibody was purified by immunogen affinity chromatography. |
| **Molecular Weight** | Predicted: 10; Observed: 17 kD |
| **Form/Buffer** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Alternative Names** | SMT3A; SMT3H2; Small ubiquitin-related modifier 2; SUMO-2; HSMT3; SMT3 homolog 2; SUMO-3; Sentrin-2; Ubiquitin-like protein SMT3A; Smt3A |
| **Gene Symbol** | SUMO2 |
| **Entrez Gene** | 6613(Human); 170930(Mouse); 690244(Rat) |
| **SwissProt** | P61956(Human); P61957(Mouse); P61959(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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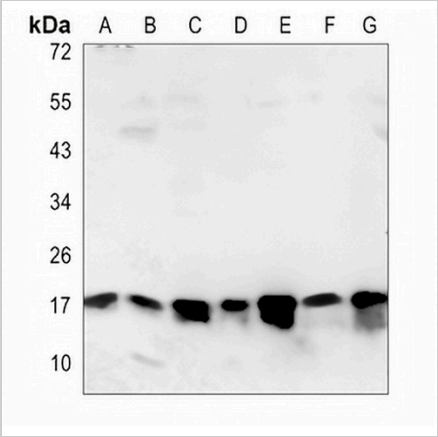
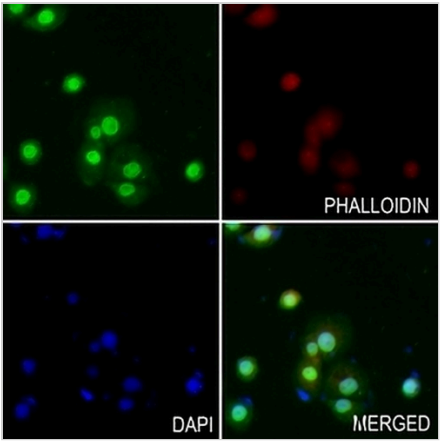
## DATA




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. (Predicted band size: 10; 11 kD; Observed band size: 17 kD)




Immunofluorescent analysis of SUMO2/3 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

## STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

## NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.