

## Product datasheet

info@arigobio.com

# ARG54869 anti-SUMO (pan) antibody

Package: 100 μl Store at: -20°C

### **Summary**

Product Description Rabbit Polyclonal antibody recognizes SUMO (pan)

Tested Reactivity Hu, Rat

Tested Application ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name SUMO (pan)

Species Human

Immunogen Recombinant protein encoding full length Human SUMO3.

Conjugation Un-conjugated

Alternate Names SMT3 homolog 1; SMT3A; SUMO-3; SUMO-2; Small ubiquitin-related modifier 3; SMT3H1; Ubiquitin-like

protein SMT3A; Smt3B; Smt3A

## **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1:10 - 1:50
	IHC-P	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	293	

## **Properties**

Form Liquid

Purification Purification with Protein G.

Buffer PBS and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Database links GenelD: 499417 Rat

GenelD: 6612 Human

Swiss-port # P55854 Human

Swiss-port # Q5XIF4 Rat

Gene Symbol SUMO3

Gene Full Name small ubiquitin-like modifier 3

Background This gene encodes a member of the small ubiquitin-related modifier (SUMO) family of eukaryotic

proteins. The encoded protein is covalently conjugated to other proteins via a post-translation modification known as sumoylation. Sumoylation may play a role in a wide variety of cellular processes, including nuclear transport, DNA replication and repair, mitosis, transcriptional regulation, and signal transduction. Alternatively spliced transcript variants encoding distinct proteins have been described.

[provided by RefSeq, Feb 2014]

Function Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a

lysine-linked polymer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Covalent attachment 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 or CBX4 (PubMed:11451954, PubMed:18538659, PubMed:21965678). Plays a role in the regulation of sumoylation status of SETX

(PubMed:24105744). [UniProt]

Research Area Cell Biology and Cellular Response antibody

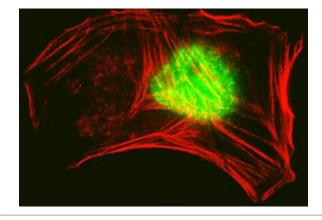
Calculated Mw 12 kDa

PTM Polymeric chains can be formed through Lys-11 cross-linking.

Cleavage of precursor form by SENP1, SENP2 or SENP5 is necessary for function.

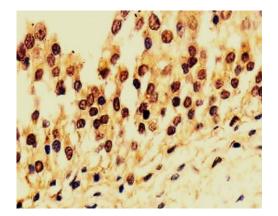
Cellular Localization Cytoplasm. Nucleus. Nucleus, PML body

## **Images**



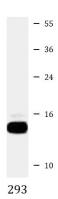
#### ARG54869 anti-SUMO (pan) antibody ICC/IF image

Immunofluorescence: HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then stained with ARG54869 anti-SUMO (pan) antibody (green) at 1:25 dilution, 1 h at 37°C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37°C). DAPI (blue) for nuclear staining.



## ARG54869 anti-SUMO (pan) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human bladder tissue stained with ARG54869 anti-SUMO (pan) antibody at 1:100 dilution.



## ARG54869 anti-SUMO (pan) antibody WB image

Western blot: 35  $\mu\text{g}$  of 293 cell lysate stained with ARG54869 anti-SUMO (pan) antibody.