

Product datasheet

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ARG54892 anti-SUMO2 + SUMO3 antibody

Package: 100 μl Store at: -20°C

Summary

Host

Product Description Rabbit Polyclonal antibody recognizes SUMO2 + SUMO3

Tested Reactivity Hu

Predict Reactivity Ms, Rat, Bov, Chk, Hm, Mk, Pig, Xenopus, Zfsh

Rabbit

Tested Application IHC-P, WB

Clonality Polyclonal

Isotype IgG

Target Name SUMO2 + SUMO3

Species Human

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 63-93 (C-terminus) of Human SUMO2.

Conjugation Un-conjugated

Alternate Names SMT3 homolog 2; HSMT3; SMT3B; SUMO-2; Small ubiquitin-related modifier 2; Sentrin-2; SUMO3;

SUMO-3; SMT3H2; Ubiquitin-like protein SMT3B; Smt3B; Smt3A

Application Instructions

Application table	Application	Dilution
	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	293T	

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 GeneID: 6613 Human

Swiss-port # P61956 Human

Gene Symbol SUMO2

Gene Full Name small ubiquitin-like modifier 2

Background This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein

family. It 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. It is not active until the last two amino acids of the carboxy-terminus have been cleaved off. Numerous pseudogenes have been reported for this gene. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by

RefSeq, Jul 2008]

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 or CBX4. 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, PubMed:18538659, PubMed:21965678, PubMed:9556629). Plays a role in the regulation of

sumoylation status of SETX (PubMed:24105744). [UniProt]

Research Area Cell Biology and Cellular Response antibody

Calculated Mw 11 kDa

PTM Polymeric chains can be formed through Lys-11 cross-linking. Polymeric SUMO2 chains undergo 'Lys-6'-,

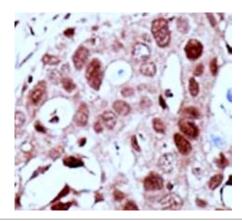
'Lys-11'-, 'Lys-48'- and 'Lys-63'-linked polyubiquitination by RNF4. Cleavage of precursor form by SENP1 or SENP2 is necessary for function.

Monoubiquitinated N-terminally by UBE2W, which primes it for RNF4-dependent polyubiquitination by

the UBE2V1-UBE2N heterodimer.

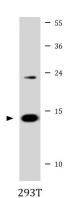
Cellular Localization Nucleus. Nucleus, PML body.

Images



ARG54892 anti-SUMO2 + SUMO3 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast carcinoma tissue stained with ARG54892 anti-SUMO2 + SUMO3 antibody.



ARG54892 anti-SUMO2 + SUMO3 antibody WB image

Western blot: 35 μg of 293T cell lysate stained with ARG54892 anti-SUMO2 + SUMO3 antibody at 1:1000 dilution.

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