

ARG54892 anti-SUMO2 + SUMO3 antibody

Package: 100 µl
Store at: -20°C

Summary

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|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes SUMO2 + SUMO3 |
| Tested Reactivity | Hu |
| Predict Reactivity | Ms, Rat, Bov, Chk, Hm, Mk, Pig, Xenopus, Zfsh |
| Tested Application | IHC-P, WB |
| Host | Rabbit |
| 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 | |

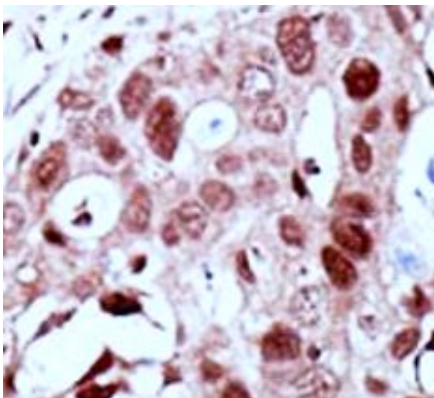
Properties

| | |
|---------------------|--|
| 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.

