

Sumo1 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10187

Product Information

Application	WB
Primary Accession	P63166
Other Accession	NM_009460 , NP_033486
Reactivity	Human, Mouse, Rat, Pig, Goat, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Chicken, Dog, Guinea Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	11557

Additional Information

Gene ID	22218
Alias Symbol	GMP1, MGC103203, PIC1, SENTRIN, SMT3, SMT3H3, SMTP3, SUMO-1, Smt3C, Ubl1
Other Names	Small ubiquitin-related modifier 1, SUMO-1, SMT3 homolog 3, Ubiquitin-homology domain protein PIC1, Ubiquitin-like protein SMT3C, Smt3C, Sumo1, Smt3c, Smt3h3, Ubl1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Sumo1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Sumo1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Sumo1
Synonyms	Smt3c, Smt3h3, Ubl1
Function	Ubiquitin-like protein that can be covalently attached to proteins as a monomer or 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 E3 ligases 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. Involved for instance in targeting RANGAP1 to the nuclear pore complex protein RANBP2. Covalently attached to the voltage-gated potassium channel KCNB1; this modulates the gating characteristics of KCNB1. Polymeric SUMO1 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. May also regulate a network of genes involved in palate development. Covalently attached to ZFHX3 (By similarity).

Cellular Location

Nucleus membrane {ECO:0000250|UniProtKB:P63165}. Nucleus speckle. Cytoplasm {ECO:0000250|UniProtKB:P63165}. Nucleus, PML body {ECO:0000250|UniProtKB:P63165}. Cell membrane {ECO:0000250|UniProtKB:P63165}. Nucleus {ECO:0000250|UniProtKB:P63165} Note=Recruited by BCL11A into the nuclear body (PubMed:18681895). In the presence of ZFHX3, sequestered to nuclear body (NB)-like dots in the nucleus some of which overlap or closely associate with PML body (By similarity). {ECO:0000250|UniProtKB:P63165, ECO:0000269|PubMed:18681895}

Tissue Location

Ubiquitous.

Images



WB Suggested Anti-Sumo1 Antibody
Titration: 1. µg/ml
Positive Control: Mouse Thymus

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.