10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Sumo1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10187

Specification

Sumo1 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	P63166
Other Accession	NM_009460, NP_033486
Reactivity	**Human, Mouse, Rat, Pig, Goat, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Rat, Pig, Chicken, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**11kDa KDa**

Sumo1 antibody - N-terminal region - 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.

Sumo1 antibody - N-terminal region - 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, sequesterd 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}

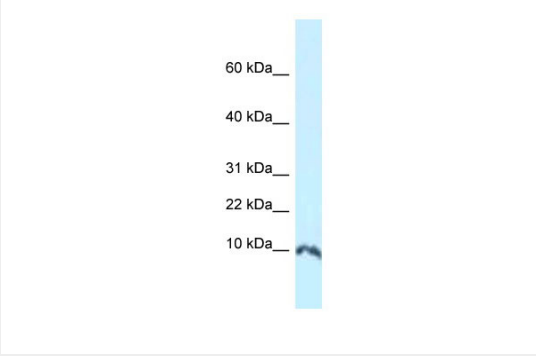
Tissue Location
Ubiquitous.

Sumo1 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Sumo1 antibody - N-terminal region - Images



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