

# SUMO1 Rabbit mAb

Catalog # AP76133

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">P63165</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Calculated MW     | 11557                  |

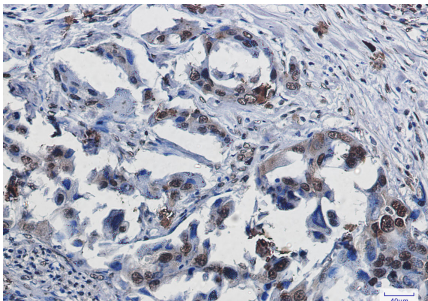
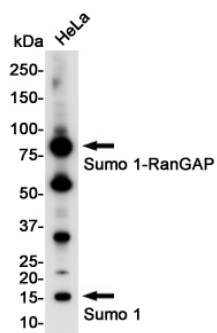
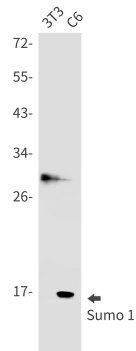
## Additional Information

|             |                             |
|-------------|-----------------------------|
| Gene ID     | 7341                        |
| Other Names | SUMO1                       |
| Dilution    | WB~~1/500-1/1000 IHC-P~~N/A |
| Format      | Liquid                      |

## Protein Information

|                   |   |
|-------------------|---|
| Name              | SUMO1   |
| Synonyms          | SMT3C, SMT3H3, UBL1   |
| Function          | <p>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 (PubMed:<a href="#">19223394</a>). 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 ZFH3 (PubMed:<a href="#">24651376</a>).</p> |
| Cellular Location | <p>Nucleus membrane. Nucleus speckle {ECO:0000250 UniProtKB:P63166}. Cytoplasm. Nucleus, PML body. Cell membrane. Nucleus. Note=Recruited by BCL11A into the nuclear body (By similarity). In the presence of ZFH3, sequestered to nuclear body (NB)-like dots in the nucleus some of which overlap or closely associate with PML body (PubMed:24651376)</p>  |

## Images



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