# SUMO1 polyclonal antibody

Catalog # PAB0765 Size 100 uL

## Applications


### Western Blot

Western blot detection of recombinant SUMO1 protein using sheep SUMO1 polyclonal antibody (Cat # PAB0765) at a dilution of 1 : 8000. The protein sample was 1 uL of E.Coli cell lysate containing approximately 50 ng of recombinant SUMO1 protein. This antibody recognises a major band of approximately 17 KDa corresponding to SUMO1, as well as a smaller minor band of 8 KDa.

## Specification

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| **Product Description** | Sheep polyclonal antibody raised against synthetic peptide of SUMO1. |
| **Immunogen** | A synthetic peptide (conjugated diphtheria toxoid) corresponding to amino acids 6-21 of human SUMO1. |
| **Sequence** | AKPSTEDLGDKKEGEY |
| **Host** | Sheep |
| **Reactivity** | Human, Rat |
| **Specificity** | This antiserum recognizes human SUMO-1 and not ubiquitin. |
| **Form** | Lyophilized |
| **Recommend Usage** | Immunohistochemistry (1:2000-1:4000)<br>Western Blot (1:4000-1:8000)<br>The optimal dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from PBS |

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| **Storage Instruction** | Store at 4°C on dry atmosphere.<br>After reconstitution with deionized water, store at -20°C or lower.<br>Aliquot to avoid repeated freezing and thawing. |

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- Immunohistochemistry (Frozen sections)

## Gene Info — SUMO1

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|---|---|
| **Entrez GeneID** | 7341 |
| **Protein Accession#** | P63165 |
| **Gene Name** | SUMO1 |
| **Gene Alias** | DAP-1, GMP1, OFC10, PIC1, SENP2, SMT3, SMT3C, SMT3H3, SUMO-1, UBL1 |
| **Gene Description** | SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae) |
| **Omim ID** | 601912 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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 p ost-translational modification system. However, unlike ubiquitin which targets proteins for degrada tion, this protein is involved in a variety of cellular processes, such as nuclear transport, transcripti onal regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized. [pro vided by RefSeq |
| **Other Designations** | GAP modifying protein 1\|SMT3 suppressor of mif two 3 homolog 1\|sentrin\|ubiquitin-like 1 (sentrin) |

## Disease

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- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Lung Neoplasms
- Tooth Abnormalities

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