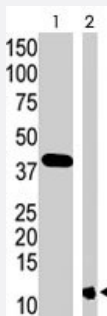


# SUMO3 polyclonal antibody

Catalog # PAB1859

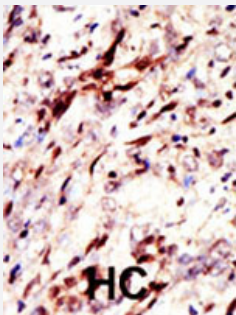
Size 400 uL

## Applications



### Western Blot

The SUMO3 polyclonal antibody (Cat # PAB1859) is used in Western blot to detect SUMO3 in GST-Sumo3 (lane 1) and 293 cell lysate (lane 2) .



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with SUMO3 polyclonal antibody (Cat # PAB1859), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against full length recombinant SUMO3.
<b>Immunogen</b>	Recombinant protein corresponding to full length human SUMO3.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Specificity</b>	This antibody recognize all 3 SUMO isoforms, including human SUMO1, SUMO2 and SUMO3.
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification

<b>Recommend Usage</b>	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

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## Gene Info — SUMO3

<b>Entrez GeneID</b>	<a href="#">6612</a>
<b>Protein Accession#</b>	<a href="#">AAC50996;P63165;NP_008868;P61956;NP_008867;P55854</a>
<b>Gene Name</b>	SUMO3
<b>Gene Alias</b>	SMT3A, SMT3H1, SUMO-3
<b>Gene Description</b>	SMT3 suppressor of mif two 3 homolog 3 (S. cerevisiae)
<b>Omim ID</b>	<a href="#">602231</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	SUMO proteins, such as SUMO3, and ubiquitin (see MIM 191339) posttranslationally modify numerous cellular proteins and affect their metabolism and function. However, unlike ubiquitination, which targets proteins for degradation, sumoylation participates in a number of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability (Su and Li, 2002 [PubMed 12383504]).[supplied by OMIM]

**Other Designations**

OTTHUMP00000115275|SMT3 suppressor of mif two 3 homolog 1|small ubiquitin-like modifier protein 3

**Publication Reference**

- [SUMO promotes HDAC-mediated transcriptional repression.](#)

Yang SH, Sharrocks AD.

Molecular Cell 2004 Feb; 13(4):611.

- [Modification of de novo DNA methyltransferase 3a \(Dnmt3a\) by SUMO-1 modulates its interaction with histone deacetylases \(HDACs\) and its capacity to repress transcription.](#)

Ling Y, Sankpal UT, Robertson AK, McNally JG, Karpova T, Robertson KD.

Nucleic Acids Research 2004 Jan; 32(2):598.

- [Characterization of the localization and proteolytic activity of the SUMO-specific protease, SENP1.](#)

Bailey D, O'Hare P.

The Journal of Biological Chemistry 2003 Oct; 279(1):692.

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- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
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