

**Xenopus SUMO2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1285a****Specification**

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**Xenopus SUMO2 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q7ZTK7</a>
Other Accession	<a href="#">Q6GPW2</a>
Reactivity	Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	10820
Antigen Region	1-30

**Xenopus SUMO2 Antibody (N-term) - Additional Information****Gene ID** 379777**Other Names**

Small ubiquitin-related modifier 2-A, SUMO-2-A, sumo2-a, smt3h2

**Target/Specificity**

This Xenopus SUMO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human Xenopus SUMO2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Xenopus SUMO2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Xenopus SUMO2 Antibody (N-term) - Protein Information****Name** sumo2-a**Synonyms** smt3h2

**Function** Ubiquitin-like protein that can be covalently attached to proteins as a monomer or as 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 an E3 ligase such as pias1-4. 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. Polymeric sumo2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins.

#### **Cellular Location**

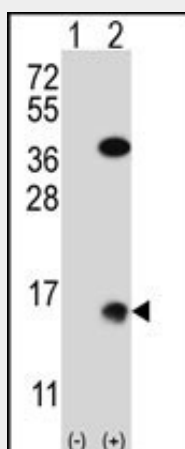
Nucleus.

#### **Xenopus SUMO2 Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Xenopus SUMO2 Antibody (N-term) - Images**



Western blot analysis of SUMO2 (arrow) using rabbit polyclonal SUMO2 Antibody (M1) (Xenopus) (Cat. #AP1285a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SUMO2 gene.

#### **Xenopus SUMO2 Antibody (N-term) - Background**

SUMO2 is a ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. SUMO2 does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. This protein plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Covalent attachment 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 PIAS isoforms 1-4.

**Xenopus SUMO2 Antibody (N-term) - References**

Muller S, et al., Nat Rev Mol Cell Biol. 2001 2(3):202-10 Review.  
Hochstrasser M. Cell. 2001 107(1):5-8. Review.  
Kahyo T, et al., Mol Cell. 2001 Sep;8(3):713-8.  
Yeh ET, et al., Gene. 2000 May 2;248(1-2):1-14. Review.  
Keane,M.M., et al., Oncogene 18 (22), 3365-3375 (1999)