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Xenopus SUMO2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1285a

Specification

Xenopus SUMO2 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q7ZTK7
Other Accession	Q6GPW2
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.

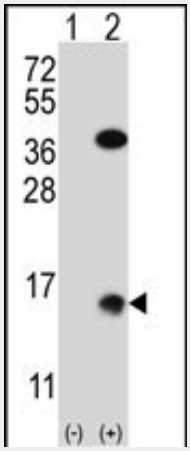
Cellular Location
Nucleus.

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 Cytomety
- 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.

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Xenopus SUMO2 Antibody (N-term) - References

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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.
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