

Xenopus SUMO2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP1285a

Specification

Xenopus SUMO2 Antibody (N-term) - Product Information

Application WB,E **Q7ZTK7 Primary Accession** 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

E~~Use at an assay dependent concentration.

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.

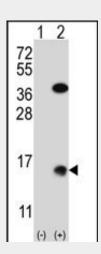
Cellular Location Nucleus.

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

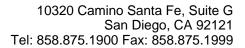
Xenopus SUMO2 Antibody (N-term) - Images



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.

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)