

SENP6 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1238a**Specification**

SENP6 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O9GZR1](#)**SENP6 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 26054**Other Names**

Sentrin-specific protease 6, SUMO-1-specific protease 1, Sentrin/SUMO-specific protease SENP6, SENP6, KIAA0797, SSP1, SUSP1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1238a](/product/products/AP1238a) was selected from the N-term region of human SENP6. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SENP6 Antibody (N-term) Blocking Peptide - Protein Information**Name** SENP6**Synonyms** KIAA0797, SSP1, SUSP1**Function**

Protease that deconjugates SUMO1, SUMO2 and SUMO3 from targeted proteins. Processes preferentially poly-SUMO2 and poly-SUMO3 chains, but does not efficiently process SUMO1, SUMO2 and SUMO3 precursors. Deconjugates SUMO1 from RXRA, leading to transcriptional activation. Involved in chromosome alignment and spindle assembly, by regulating the kinetochore CENPH-CENPI-CENPK complex. Desumoylates PML and CENPI, protecting them from degradation by the ubiquitin ligase RNF4, which targets polysumoylated proteins for proteasomal degradation. Desumoylates also RPA1, thus preventing recruitment of RAD51 to the DNA damage foci to initiate DNA repair through homologous recombination.

Cellular Location

Nucleus

Tissue Location

Highly expressed in reproductive organs, such as testis, ovary and prostate

SEN6 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SEN6 Antibody (N-term) Blocking Peptide - Images**SEN6 Antibody (N-term) Blocking Peptide - Background**

SEN6 (SUSP1) is a protease that deconjugates SUMO1, SUMO2 and SUMO3 from targeted proteins. This protein does not seem to be involved in the processing of full-length SUMO proteins to their mature conjugatable forms. SEN6 deconjugates SUMO1 from RXRA, leading to transcriptional activation. It may act preferentially on substrates containing 3 or more SUMO2 or SUMO3 moieties.

SEN6 Antibody (N-term) Blocking Peptide - References

Ota, T., et al., Nat. Genet. 36(1):40-45 (2004). Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Kim, K.I., et al., J. Biol. Chem. 275(19):14102-14106 (2000).