

**SEN3 Antibody (C-term) Blocking Peptide**

Synthetic peptide

Catalog # BP1235a

**Specification**

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**SEN3 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession

[Q9H4L4](#)**SEN3 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 26168

**Other Names**

Sentrin-specific protease 3, SUMO-1-specific protease 3, Sentrin/SUMO-specific protease SENP3, SENP3, SSP3, SUSP3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1235a](/product/products/AP1235a) was selected from the C-term region of human SENP3. 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.

**SEN3 Antibody (C-term) Blocking Peptide - Protein Information**

Name SENP3

**Function**

Protease that releases SUMO2 and SUMO3 monomers from sumoylated substrates, but has only weak activity against SUMO1 conjugates (PubMed:[16608850](http://www.uniprot.org/citations/16608850), PubMed:[32832608](http://www.uniprot.org/citations/32832608)). Deconjugates SUMO2 from MEF2D, which increases its transcriptional activation capability (PubMed:[15743823](http://www.uniprot.org/citations/15743823)). Deconjugates SUMO2 and SUMO3 from CDCA8 (PubMed:[18946085](http://www.uniprot.org/citations/18946085)). Redox sensor that, when redistributed into nucleoplasm, can act as an effector to enhance HIF1A transcriptional activity by desumoylating EP300 (PubMed:[19680224](http://www.uniprot.org/citations/19680224)). Required for

rRNA processing through deconjugation of SUMO2 and SUMO3 from nucleophosmin, NPM1 (PubMed:<a href="http://www.uniprot.org/citations/19015314" target="\_blank">19015314</a>). Plays a role in the regulation of sumoylation status of ZNF148 (PubMed:<a href="http://www.uniprot.org/citations/18259216" target="\_blank">18259216</a>). Functions as a component of the Five Friends of Methylated CHTOP (5FMC) complex; the 5FMC complex is recruited to ZNF148 by methylated CHTOP, leading to desumoylation of ZNF148 and subsequent transactivation of ZNF148 target genes (PubMed:<a href="http://www.uniprot.org/citations/22872859" target="\_blank">22872859</a>). Deconjugates SUMO2 from KAT5 (PubMed:<a href="http://www.uniprot.org/citations/32832608" target="\_blank">32832608</a>).

#### **Cellular Location**

Nucleus, nucleolus. Nucleus, nucleoplasm. Cytoplasm {ECO:0000250|UniProtKB:Q9EP97} Note=Redistributes between the nucleolus and the nucleoplasm in response to mild oxidative stress (PubMed:19680224). Mainly found in the nucleoplasm, with low levels detected in the cytoplasmic and chromatin fractions (By similarity). {ECO:0000250|UniProtKB:Q9EP97, ECO:0000269|PubMed:19680224}

#### **SEN3 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **SEN3 Antibody (C-term) Blocking Peptide - Images**

#### **SEN3 Antibody (C-term) Blocking Peptide - Background**

SEN3 releases SUMO2 and SUMO3 monomers from sumoylated substrates, but has only weak activity against SUMO1 conjugates. This protein deconjugates SUMO2 from MEF2D, which increases its transcriptional activation capability.

#### **SEN3 Antibody (C-term) Blocking Peptide - 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)