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SENP3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1234a

Specification

SENP3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9H4L4

SENP3 Antibody (N-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 AP1234a was selected from the N-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.

SENP3 Antibody (N-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, PubMed:32832608). Deconjugates SUMO2 from MEF2D, which increases its transcriptional activation capability (PubMed:15743823). Deconjugates SUMO2 and SUMO3 from CDCA8 (PubMed:18946085). Redox sensor that, when redistributed into nucleoplasm, can act as an effector to enhance HIF1A transcriptional activity by desumoylating EP300 (PubMed:19680224). Required for

rRNA processing through deconjugation of SUMO2 and SUMO3 from nucleophosmin, NPM1 (PubMed:19015314). Plays a role in the regulation of sumoylation status of ZNF148 (PubMed:18259216). 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:22872859). Deconjugates SUMO2 from KAT5 (PubMed:32832608).

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}

SENP3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SENP3 Antibody (N-term) Blocking Peptide - Images

SENP3 Antibody (N-term) Blocking Peptide - Background

SENP3 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.

SENP3 Antibody (N-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)