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SENP3 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1234a

Specification

SENP3 Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q9H4L4
Other Accession	Q9EP97
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**1-30**

SENP3 Antibody (N-term) - 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
This SENP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SENP3.

Dilution
IHC-P~~1:50~100
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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
SENP3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SENP3 Antibody (N-term) - 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, PubMed:36050397). 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). Catalyzes desumoylation of MRE11 (PubMed:36050397).

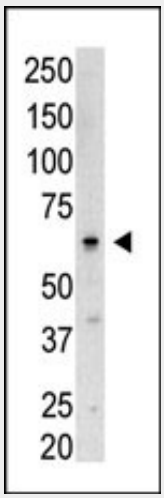
Cellular Location
Nucleus, nucleolus. Nucleus, nucleoplasm. Cytoplasm {ECO:0000250|UniProtKB:Q9EP97} Note=Redistributes between the nucleolus and the nucleoplasm in response to mild oxidative stress (PubMed:19680224). Mainly found in the nucleoplasm, with low levels detected in the cytoplasmic and chromatin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

SENP3 Antibody (N-term) - Protocols

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

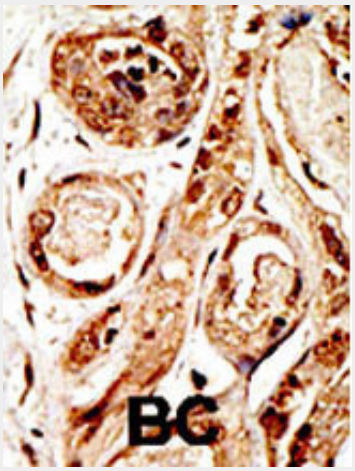
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SENP3 Antibody (N-term) - Images

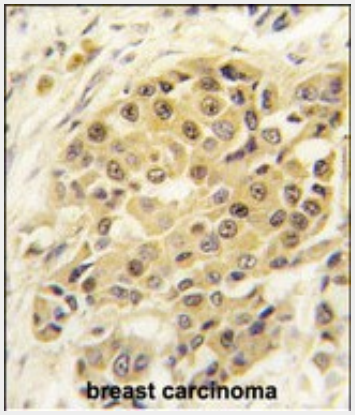


Western blot analysis of SENP3 N-term polyclonal antibody (Cat. #AP1234a) in Saos-2 cell lysate. SENP3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal

visualization with chemiluminescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with SENP3 antibody (N-term) (Cat.#AP1234a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

SENP3 Antibody (N-term) - 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) - References

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Hochstrasser M. Cell. 2001 107(1):5-8. Review.
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