

AP06459PU-N**Polyclonal Antibody to SENP5 - Aff - Purified****Alternate names:**

Sentrin-specific protease 5, Sentrin/SUMO-specific protease SENP5

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

SUMO (small ubiquitin-related modifier), a member of the ubiquitin-like protein family, regulates diverse cellular functions of a variety of target proteins, including transcription, DNA repair, nucleocytoplasmic trafficking and chromosome segregation. SUMO precursor proteins undergo cleavage of the residues after the "GG" region by SUMO-specific proteases in maturation. This cleavage of the precursor is a prerequisite for subsequent sumoylation. The sentrin-specific (or SUMO-specific) protease (SENPs) proteins belong to the peptidase C48 family and include SENP1-3 and SENP5-8. SENP1, SENP2 and SENP3 degrade UBL1 and SMT3H2 conjugates and subsequently release the monomers from sumoylated substrates. HIPK2 is a desumoylation target for SENP1 which shuttles between the cytoplasm and the nucleus. Mutation analyses reveal that SENP1 contains the nuclear export sequence (NES) within the extreme carboxyl-terminal region, and SENP1 is exported to the cytoplasm in a NES-dependent manner. SENP2 has been implicated as a downregulator of CTNNB1 levels and may therefore be a modulator of the Wnt pathway. SUMO protease SENP3 reverses the sumoylation of MEF2 to augment its transcriptional and myogenic activities. SENP5 localizes to the nucleolus and preferentially processes SUMO-3. It is thought to play a role in mitosis and/or cytokinesis. SENP6 localizes to the cytoplasm and releases SUMO-1. Expression of SENP6 is higher in reproductive organs, indicating that it may mediate processes related to reproduction. SENP8 is involved in the release of sentrins.

Uniprot ID:[Q96HI0](#)**NCBI:**[NP_689912](#)**GeneID:**[205564](#)**Host:**

Rabbit

Format:**State:** Liquid purified Ig fraction (>95% pure by SDS-PAGE).**Purification:** Affinity Chromatography using epitope-specific immunogen.**Buffer System:** Phosphate Buffered Saline (PBS), pH~7.2**Preservatives:** 15mM Sodium Azide**Applications:****Western blot:** 1/500-1/1000.**Immunohistochemistry on paraffin sections:** 1/50-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight:

~80 kDa

Specificity:

This antibody detects endogenous levels of SENP5 protein.
(region surrounding Leu681)

Species: Human, Mouse, and Rat.

Other species not tested.

Storage:

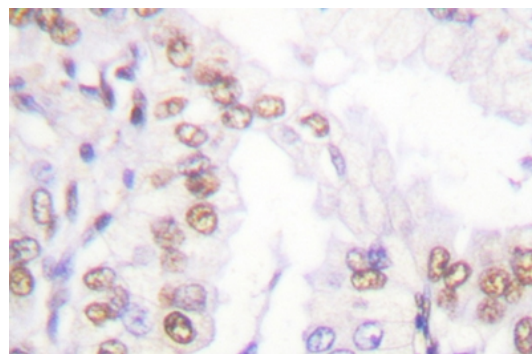
Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: One year from despatch.

Pictures:

Immunohistochemistry (IHC) analyzes of SENP5 antibody (Cat.-No.: AP06459PU-N) in paraffin-embedded human lung carcinoma tissue.



Western blot (WB) analysis of SENP5 antibody (Cat.-No.: AP06459PU-N) in extracts from PC12 cells.

