

Rabbit NAP1L1 Polyclonal Antibody | anti-NAP1L1 antibody

Anti-NAP1L1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127277	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

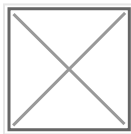
NAP1L1; Polyclonal Antibody; Anti-NAP1L1 Antibody Picoband; Long-chain-fatty-acid--CoA ligase 5; SUMO specific peptidase 6; Sentrin-specific protease 6; SUMO-1-specific protease 1; Sentrin/SUMO-specific protease SENP6; SENP6; KIAA0797; SSP1; SUSP1; FKSG6; anti-NAP1L1 antibody

PRODUCT SPECIFICATIONS

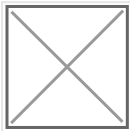
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in many tissues, highest levels in skeletal muscle.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NAP1L1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human NAP1L1, which shares 95.7% amino acid (aa) sequence identity with mouse and rat NAP1L1.
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein 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.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of PC-3 cells using anti-NAP1L1 antibody (AAA127277).Overlay histogram showing PC-3 cells stained with AAA127277 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NAP1L1 Antibody (AAA127277, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)
Figure 2. IF analysis of NAP1L1 using anti-NAP1L1 antibody (AAA127277).NAP1L1 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NAP1L1 Antibody (AAA127277) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of NAP1L1 using anti-NAP1L1 antibody (AAA127277).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: rat thymus tissue lysates,Lane 5: rat PC-12 whole cell lysates,Lane 6: mouse thymus tissue lysates,Lane 7: mouse NIH/3T3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NAP1L1 antigen affinity purified polyclonal antibody (#AAA127277) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NAP1L1 at approximately 55 kDa. The expected band size for NAP1L1 is at 45 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NAP1L1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NAP1L1 antibody	Primary Antibodies; Cancer; Lipid Metabolism; Metabolism; Signal Transduction
References	1. Hajkova, P., Ancelin, K., Waldmann, T., Lacoste, N., Lange, U. C., Cesari, F., Lee, C., Almouzni, G., Schneider, R., Surani, M. A. Chromatin dynamics during epigenetic reprogramming in the mouse germ line. Nature 452: 877-881, 2008. 2. Park, Y.-J., Luger, K. The structure of nucleosome assembly protein 1. Proc. Nat. Acad. Sci. 103: 1248-1253, 2006. 3. Simon, H.-U., Mills, G. B., Kozlowski, M., Hogg, D., Branch, D., Ishimi, Y., Siminovitsh, K. A. Molecular characterization of hNRP, a cDNA encoding a human nucleosome-assembly-protein-I-related gene product involved in the induction of cell proliferation. Biochem. J. 297: 389-397, 1994.

NCBI AND UNIPROT INFORMATION

NCBI GI #	189067
NCBI GeneID	4673
UniProt Accession #	P55209; B3KNT8
Molecular Weight	45,374 Da
NCBI Official Full Name	NAP
NCBI Official Synonym Full Names	nucleosome assembly protein 1-like 1

NCBI Official Symbol	NAP1L1
NCBI Official Synonym Symbols	NRP; NAP1; NAP1L
NCBI Protein Information	nucleosome assembly protein 1-like 1; hNRP; NAP-1 related protein; NAP-1-related protein; HSP22-like protein interacting protein
UniProt Protein Name	Nucleosome assembly protein 1-like 1
UniProt Gene Name	NAP1L1
UniProt Synonym Gene Names	NRP; hNRP
UniProt Entry Name	NP1L1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nap1l1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127277>