

# Recombinant human NAP1L4 protein

Catalog Number: ATGP2317

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-375aa

### UniProt No.

Q99733

### NCBI Accession No.

NP\_005960

### Alternative Names

Nucleosome assembly protein 1-like 4, hNAP2, NAP1L4b, NAP2, NAP2L

## PRODUCT SPECIFICATION

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### Molecular Weight

45.2 kDa (398aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

NAP1L4 is a member of the nucleosome assembly protein (NAP) family which can interact with both core and linker histones. It can shuttle between the cytoplasm and nucleus, suggesting a role as a histone chaperone. This gene is one of several located near the imprinted gene domain of 11p15. 5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. Recombinant human NAP1L4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MADHSFS DGVPDSVEA AKNASNTEKL TDQVMQNPRV LAALQERLDN  
VPHTPSSYIE TLPKAVKRRRI NALKQLQVRC AHIEAKFYEE VHDLERKYAA LYQPLFDKRR EFITGDVEPT DAESEWHSN  
EEEEKLAGDM KSKVVVTEKA AATAEEPDPK GIPEFWFTIF RNVDMLSELV QEYDEPILKH LQDIKVKFSD PGQPMSFVLE  
FHFEPNDYFT NSVLTKTYKM KSEPKADPF SFEGPEIVDC DGCTIDWKKG KNVTVKTIKK KQKHKGRGTV RTITKQVPNE  
SFFNFFNPLK ASGDGESLDE DSEFTLASDF EIGHFFRERI VPRAVLYFTG EAIEDDDNFE EGEEGEEEEEL EGDEEGEDED  
DAEINPKV

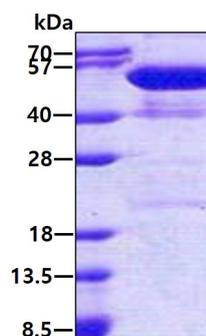
## General References

Olsen J.V., et al. (2006) Cell. 127:635-648

Nousiainen M., et al. (2006) Proc. Natl. Acad. Sci. u.S.A. 103:5391-5396

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.