

For Research Use Only

# NCAPH Polyclonal antibody

Catalog Number: 11515-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

11515-1-AP

### Size:

150ul, Concentration: 600 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2076

### GenBank Accession Number:

BC024211

### GeneID (NCBI):

23397

### Full Name:

non-SMC condensin I complex, subunit H

### Calculated MW:

741 aa, 83 kDa

### Observed MW:

83-100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total

protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: HEK-293 cells, Jurkat cells, K-562 cells, HeLa cells

IP: HeLa cells,

IHC: human colon cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Non-SMC condensin I complex subunit H (NCAPH) is one of the three non-SMC subunits in condensin I, which belongs to a recently defined superfamily of proteins termed kleisins. Another two non-SMC subunits, CAP-D2 and CAP-G, share a highly degenerate repeating motif known as HEAT repeat. Some studies show that each subunit is essential for viability and plays an important role in mitotic chromosome architecture and segregation. In recent years, researchers found that the high expression of NCAPH was associated with poor prognosis in patients with non-small cell lung cancer and prostate cancer. Downregulation of NCAPH inhibited the proliferation, migration, and invasion of several cancer cells significantly. Moreover, NCAPH was involved in the regulation of mature chromosome condensation and DNA damage. These data suggest that NCAPH may be a key carcinogen involved in the development and progression of human malignant tumors. ( PMID: 28300828, PMID: 33311486 )

## Notable Publications

Author	Pubmed ID	Journal	Application
Chengjun Sun	31523845	Mol Carcinog	WB,IHC
Takuya Ogura	34768935	Int J Mol Sci	WB,IHC
Masatoshi Takagi	29487178	J Cell Sci	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

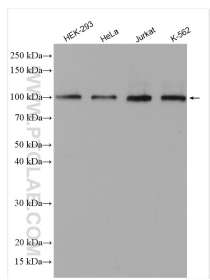
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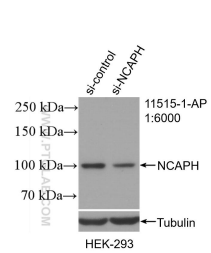
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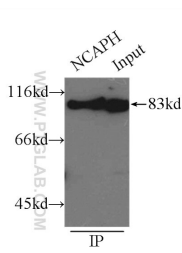
Selected Validation Data



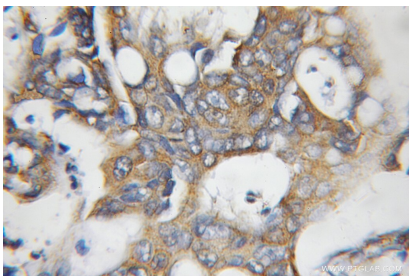
Various lysates were subjected to SDS PAGE followed by western blot with 11515-1-AP (NCAPH antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of NCAPH antibody (11515-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NCAPH transfected HEK-293 cells.



IP Result of anti-NCAPH (IP:11515-1-AP, 3ug; Detection:11515-1-AP 1:800) with HeLa cells lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 11515-1-AP (NCAPH antibody) at dilution of 1:50 (under 10x lens).