

For Research Use Only

# NCAPD2 Polyclonal antibody

Catalog Number: 13382-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

13382-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4219

### GenBank Accession Number:

BC028182

### GeneID (NCBI):

9918

### UNIPROT ID:

Q15021

### Full Name:

non-SMC condensin I complex, subunit D2

### Calculated MW:

1401 aa, 157 kDa

### Observed MW:

157 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:150-1:600

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

**WB** : HEK-293 cells, COLO 320 cells, HeLa cells, K-562 cells

**IP** : HEK-293 cells,

**IHC** : human skin cancer tissue, human ovary cancer tissue

**IF/ICC** : HeLa cells,

**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

NCAPD2 is a regulatory subunit of the condensin complex, which is required for conversion of interphase chromatin into mitotic-like condense chromosomes. Condensin complexes are heteropentamers comprised of two SMC (structural maintenance of chromosomes) subunits and three non-SMC subunits. The C-terminus of NCAPD2 interacts with Histones H1 and H3 through their histone tails. A loss of NCAPD2 can lead to the disorganization of chromatid axes, misalignment of sister chromatids during metaphase and delayed entry into anaphase.

## Notable Publications

Author	Pubmed ID	Journal	Application
Biao Huang	31704649	iScience	WB
Zuolei Jing	34229059	Cancer Lett	WB, IHC
Yuhua Mai	38726276	Am J Cancer Res	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

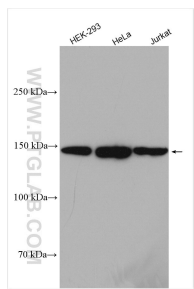
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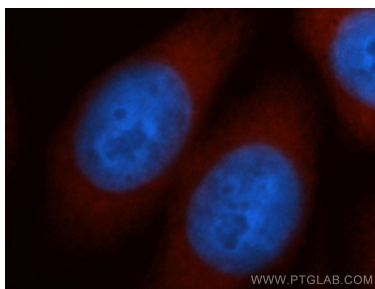
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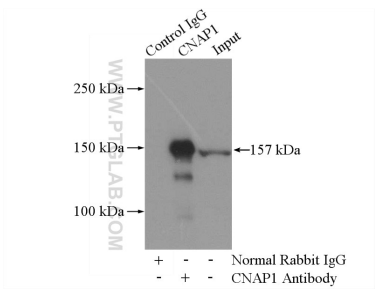
Selected Validation Data



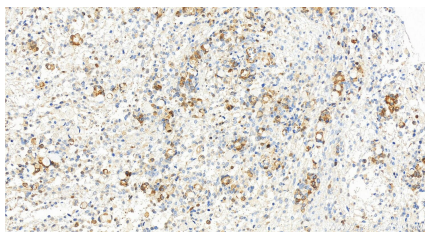
HEK-293 cells were subjected to SDS PAGE followed by western blot with 13382-1-AP (NCAPD2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



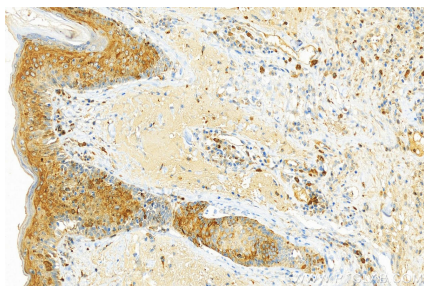
Immunofluorescent analysis of HeLa cells, using NCAPD2 antibody 13382-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-NCAPD2 (IP:13382-1-AP, 4ug; Detection:13382-1-AP 1:600) with HEK-293 cells lysate 2800ug.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 13382-1-AP (NCAPD2 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 13382-1-AP (NCAPD2 antibody) at dilution of 1:300 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).