For Research Use Only

NCAPD2 Polyclonal antibody

Catalog Number:13382-1-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
13382-1-AP

Size:
350 ug/ml

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

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

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,

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

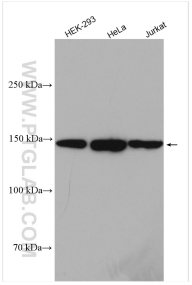
Author	Pubmed ID	Journal	Application
Biao Huang	31704649	iScience	WB
Zuolei Jing	34229059	Cancer Lett	WB,IHC
Yuhua Mai	38726276	Am J Cancer Res	WB

Storage

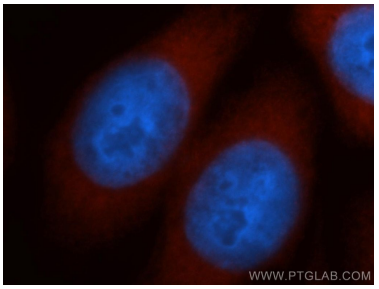
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

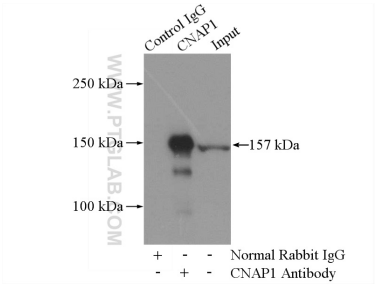
Selected Validation Data



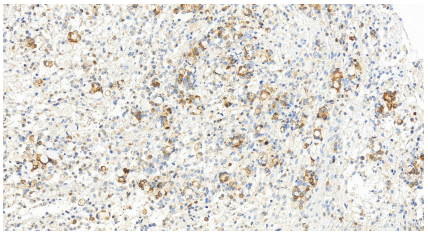
HEK-293 cells were subjected to SDS PAGE followed by western blot with 13382-1-AP (NCAPD2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



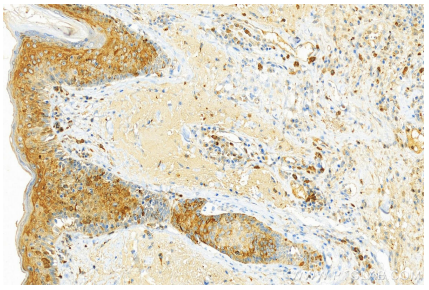
Immunofluorescent analysis of Hela cells, using NCAPD2 antibody 13382-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



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).