

For Research Use Only

NCAPD3 Polyclonal antibody

Catalog Number: 16828-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

16828-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10429

GenBank Accession Number:

BC011408

GeneID (NCBI):

23310

UNIPROT ID:

P42695

Full Name:

non-SMC condensin II complex, subunit D3

Calculated MW:

1498 aa, 169 kDa

Observed MW:

165 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, bovine

Positive Controls:

WB : HepG2 cells, HeLa cells, MCF-7 cells

IP : HeLa cells,

IF/ICC : HepG2 cells,

Background Information

Condensin complexes I and II play essential roles in mitotic chromosome assembly and segregation. Both condensins contain 2 invariant structural maintenance of chromosome (SMC) subunits, SMC2 and SMC4, but they contain different sets of non-SMC subunits. NCAPD3 is 1 of 3 non-SMC subunits that define condensin II (PMID: 14532007).

Notable Publications

Author	Pubmed ID	Journal	Application
Jae Hyeong Kim	36380731	Mol Cells	WB
Xin Hu	32070024	Int J Mol Sci	IF
Makoto M Yoshida	35983835	Elife	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

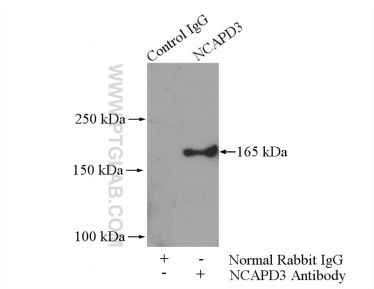
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

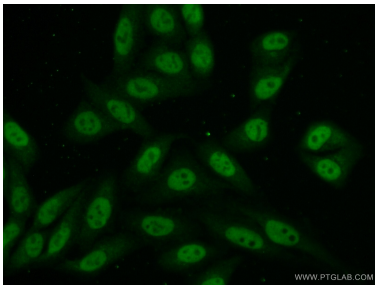
Selected Validation Data



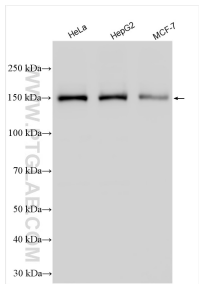
HepG2 cells were subjected to SDS PAGE followed by western blot with 16828-1-AP (NCAPD3 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



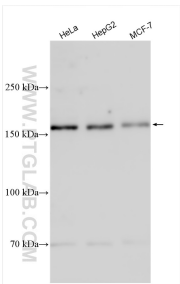
IP result of anti-NCAPD3 (IP:16828-1-AP, 4ug; Detection:16828-1-AP 1:500) with HeLa cells lysate 600ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 16828-1-AP (NCAPD3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 16828-1-AP (NCAPD3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 16828-1-AP (NCAPD3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.