

## NCAPD2 Polyclonal Antibody

Catalog number: 13382-1-AP

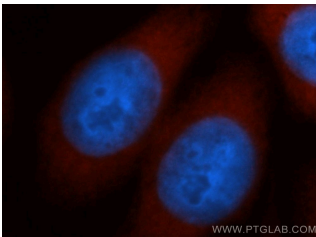
Size: 30 µg/150 µl

Source: Rabbit

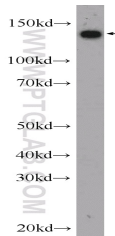
Isotype: IgG

Synonyms:

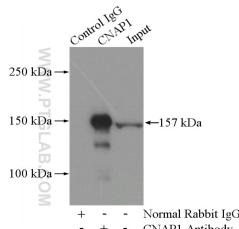
NCAPD2; CAP D2, CAPD2, CNAP1, Condensin complex subunit 1, hCAP D2, KIAA0159, NCAPD2, XCAP D2 homolog



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).



HEK-293 cells were subjected to SDS PAGE followed by western blot with 13382-1-AP( NCAPD2 Antibody) at dilution of 1:600



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

### Background

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.

### Applications

Tested applications:	ELISA, IF, WB, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated NCAPD2 MW:	1401aa, 157 kDa
Observed NCAPD2 MW:	157 kDa
Positive WB detected in	HEK-293 cells, HeLa cells, K-562 cells
Positive IP detected in	HEK-293 cells
Positive IF detected in	HeLa cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag4219
GenBank accession number:	BC028182
Gene ID (NCBI):	9918
Full name:	Non-SMC condensin I complex, subunit D2

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.