

NCAPH Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51378**Specification**

NCAPH Antibody - Product Information

Application	WB, E
Primary Accession	Q15003
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83 KDa

NCAPH Antibody - Additional Information**Gene ID** 23397**Other Names**

Condensin complex subunit 2, Barren homolog protein 1, Chromosome-associated protein H, hCAP-H, Non-SMC condensin I complex subunit H, XCAP-H homolog, NCAPH, BRRN, BRRN1, CAPH, KIAA0074

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

NCAPH Antibody - Protein Information**Name** NCAPH {ECO:0000303|PubMed:27737959, ECO:0000312|HGNC:HGNC:1112}**Function**

Regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases (PubMed:11136719). Early in neurogenesis, may play an essential role to ensure accurate mitotic chromosome condensation in neuron stem cells, ultimately affecting neuron pool and cortex size (PubMed:27737959).

Cellular Location

Nucleus. Cytoplasm. Chromosome. Note=In interphase cells, the majority of the condensin complex is found in the cytoplasm, while a minority of the complex is associated with chromatin. A subpopulation of the complex however remains associated with chromosome foci in interphase cells. During mitosis, most of the condensin complex is associated with the chromatin. At the onset of prophase, the regulatory subunits of the complex are phosphorylated by CDK1, leading to

condensin's association with chromosome arms and to chromosome condensation. Dissociation from chromosomes is observed in late telophase

Tissue Location

Widely expressed at low level. Expressed in proliferating cells.

NCAPH Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NCAPH Antibody - Images**NCAPH Antibody - Background**

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NCAPH Antibody - References

Nomura N.,et al.DNA Res. 1:223-229(1994).
Cabello O.A.,et al.Mol. Biol. Cell 12:3527-3537(2001).
Kimura K.,et al.J. Biol. Chem. 276:5417-5420(2001).
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Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).