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NCAPD3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16786B

Specification

NCAPD3 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P42695
Other Accession	NP_056076.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**168891**
Antigen Region	**1050-1078**

NCAPD3 Antibody (C-term) - Additional Information

Gene ID 23310

Other Names
Condensin-2 complex subunit D3, Non-SMC condensin II complex subunit D3, hCAP-D3, NCAPD3, CAPD3, KIAA0056

Target/Specificity
This NCAPD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1050-1078 amino acids from the C-terminal region of human NCAPD3.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NCAPD3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NCAPD3 Antibody (C-term) - Protein Information

Name NCAPD3 {ECO:0000303|PubMed:27737959, ECO:0000312|HGNC:HGNC:28952}

Function Regulatory subunit of the condensin-2 complex, a complex which establishes mitotic chromosome architecture and is involved in physical rigidity of the chromatid axis (PubMed:14532007). May promote the resolution of double-strand DNA catenanes (intertwines) between sister chromatids. Condensin-mediated compaction likely increases tension in catenated sister chromatids, providing directionality for type II topoisomerase-mediated strand exchanges toward chromatid decatenation. Specifically required for decatenation of centromeric ultrafine DNA bridges during anaphase. 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).

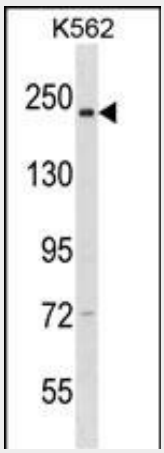
Cellular Location
Nucleus.

NCAPD3 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NCAPD3 Antibody (C-term) - Images



NCAPD3 Antibody (C-term) (Cat. #AP16786b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the NCAPD3 antibody detected the NCAPD3 protein (arrow).

NCAPD3 Antibody (C-term) - Background

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 (MIM 605576) and SMC4 (MIM 605575), but they contain different sets of non-SMC subunits. NCAPD3 is 1 of 3 non-SMC subunits that define condensin II (Ono et al., 2003 [PubMed 14532007]).

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NCAPD3 Antibody (C-term) - References

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Lapointe, J., et al. Am. J. Surg. Pathol. 32(2):205-209(2008)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)
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