



NCAPD2 mouse mAb

Catalog No	YP-mAb-18115
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	NCAPD2 CAPD2 CNAP1 KIAA0159
Immunogen	Synthesized peptide derived from human NCAPD2
Specificity	This antibody detects endogenous levels of NCAPD2 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Condensin complex subunit 1;CNAP1;Chromosome-associated protein D2; Chromosome condensation-related SMC-associated protein 1;CAPD2;NCAPD2; NCAPD2 CAPD2 CNAP1 KIAA0159;Condensin complex subunit 1 (Chromosome condensation-related SMC-associated protein 1) (Chromosome-associated protein D2) (hCAP-D2) (Non-SMC condensin I complex subunit D2) (XCAP-D2 homolog)
Observed Band	157 kDa
Calculated Molecular Weight	1401 aa, 157 kDa
Cell Pathway	Nucleus . Cytoplasm . Chromosome . 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 chroma
Tissue Specificity	
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. May target the condensin complex to DNA via its C-terminal domain . 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. Required for decatenation of non-centromeric ultrafine DNA bridges during anaphase. Early in neurogenesis, may play an essential role to ensure accurate mitotic chromosome condensation

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images