

CENPN Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP4913b

Product Information

Application	WB, FC, E
Primary Accession	Q96H22
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15002
Calculated MW	39555
Antigen Region	311-339

Additional Information

Gene ID	55839
Other Names	Centromere protein N, CENP-N, Interphase centromere complex protein 32, CENPN, C16orf60, ICEN32
Target/Specificity	This CENPN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 311-339 amino acids from the C-terminal region of human CENPN.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	CENPN Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CENPN
Synonyms	C16orf60, ICEN32
Function	Component of the CENPA-NAC (nucleosome-associated) complex, a

complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation. The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres. CENPN is the first protein to bind specifically to CENPA nucleosomes and the direct binding of CENPA nucleosomes by CENPN is required for centromere assembly. Required for chromosome congression and efficiently align the chromosomes on a metaphase plate.

Cellular Location

Nucleus. Chromosome, centromere, kinetochore. Note=Localizes exclusively in the kinetochore domain of centromeres Kinetochore-bound levels decrease when cells enter mitosis and increase again when cells exit mitosis

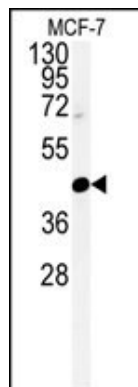
Background

The centromere is a specialized chromatin domain, present throughout the cell cycle, that acts as a platform on which the transient assembly of the kinetochore occurs during mitosis. All active centromeres are characterized by the presence of long arrays of nucleosomes in which CENPA (MIM 117139) replaces histone H3 (see MIM 601128). CENPN is an additional factor required for centromere assembly.

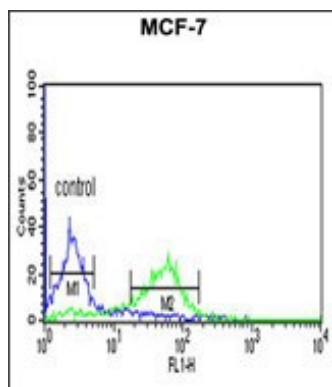
References

Carroll, C.W., et al. Nat. Cell Biol. 11(7):896-902(2009)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Izuta, H., et al. Genes Cells 11(6):673-684(2006)

Images



Western blot analysis of CENPN Antibody (C-term) (Cat. #AP4913b) in MCF-7 cell line lysates (35ug/lane). CENPN (arrow) was detected using the purified Pab.



CENPN Antibody (C-term) (Cat. #AP4913b) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.