

CENPN Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4913b**Specification**

CENPN Antibody (C-term) - Product Information

Application	FC, WB,E
Primary Accession	Q96H22
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	39555
Antigen Region	311-339

CENPN Antibody (C-term) - 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

FC~~1:10~50

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 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.

CENPN Antibody (C-term) - 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.

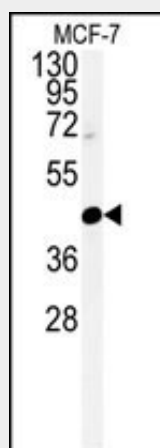
Cellular Location

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

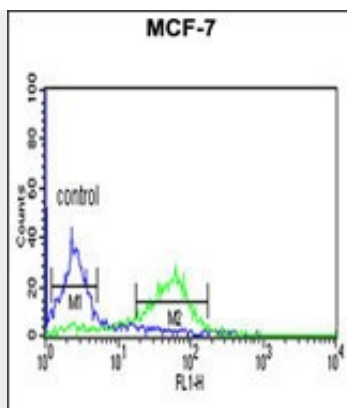
CENPN Antibody (C-term) - Protocols

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

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

CENPN Antibody (C-term) - 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.

CENPN Antibody (C-term) - 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.

CENPN Antibody (C-term) - 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)