

# CENPT Antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15790

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q96BT3</a>
<b>Other Accession</b>	<a href="#">NM_025082</a> , <a href="#">NP_079358</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Bovine
<b>Predicted</b>	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	60423

## Additional Information

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<b>Gene ID</b>	80152
<b>Alias Symbol</b>	C16orf56, CENP-T
<b>Other Names</b>	Centromere protein T, CENP-T, Interphase centromere complex protein 22, CENPT, C16orf56, ICEN22
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	Add 50 ul of distilled water. Final anti-CENPT antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
<b>Precautions</b>	CENPT Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CENPT
<b>Synonyms</b>	C16orf56, ICEN22
<b>Function</b>	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. Part of a nucleosome-associated complex that binds specifically to histone H3-containing nucleosomes at the centromere, as opposed to nucleosomes containing CENPA. Component of the heterotetrameric CENP-T-W-S-X

complex that binds and supercoils DNA, and plays an important role in kinetochore assembly. CENPT has a fundamental role in kinetochore assembly and function. It is one of the inner kinetochore proteins, with most further proteins binding downstream. Required for normal chromosome organization and normal progress through mitosis.

#### Cellular Location

Nucleus. Chromosome, centromere. Chromosome, centromere, kinetochore. Note=Constitutively localizes to centromeres throughout the cell cycle, and to kinetochores during mitosis. Localizes to the inner kinetochore, and may connect it to the outer kinetochore via its N-terminus.

## Background

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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. Part of a nucleosome-associated complex that binds specifically to histone H3-containing nucleosomes at the centromere, as opposed to nucleosomes containing CENPA. Component of the heterotetrameric CENP-T-W-S-X complex that binds and supercoils DNA, and plays an important role in kinetochore assembly. CENPT has a fundamental role in kinetochore assembly and function. It is one of the inner kinetochore proteins, with most further proteins binding downstream. Required for normal chromosome organization and normal progress through mitosis.

## References

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Ota T., et al. Nat. Genet. 36:40-45(2004).  
Izuta H., et al. Genes Cells 11:673-684(2006).  
Foltz D.R., et al. Nat. Cell Biol. 8:458-469(2006).  
Matsuoka S., et al. Science 316:1160-1166(2007).  
Dephoure N., et al. Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).

## Images

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Host: Rabbit  
Target Name: CENPT  
Sample Tissue: HepG2 Whole cell lysate  
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Antibody Dilution: 1.0 µg/ml  
CENPT is supported by BioGPS gene expression data to be expressed in HepG2

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.