

**CENPT Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9843b****Specification**

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**CENPT Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q96BT3](#)**CENPT Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 80152**Other Names**

Centromere protein T, CENP-T, Interphase centromere complex protein 22, CENPT, C16orf56, ICEN22

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CENPT Antibody (C-term) Blocking Peptide - Protein Information****Name** CENPT**Synonyms** C16orf56, ICEN22**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. 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.

## **CENPT Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **CENPT Antibody (C-term) Blocking Peptide - Images**

## **CENPT Antibody (C-term) Blocking Peptide - 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). CENPT is an additional factor required for centromere assembly.

## **CENPT Antibody (C-term) Blocking Peptide - References**

Hori, T., et al. Cell 135(6):1039-1052(2008) Hellwig, D., et al. J Biophotonics 1(3):245-254(2008) Matsuoka, S., et al. Science 316(5828):1160-1166(2007) Izuta, H., et al. Genes Cells 11(6):673-684(2006) Okada, M., et al. Nat. Cell Biol. 8(5):446-457(2006)