

**TCP1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7490a****Specification**

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**TCP1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P17987](#)**TCP1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6950**Other Names**

T-complex protein 1 subunit alpha, TCP-1-alpha, CCT-alpha, TCP1, CCT1, CCTA

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7490a](/products/AP7490a) was selected from the N-term region of human TCP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**TCP1 Antibody (N-term) Blocking Peptide - Protein Information****Name** TCP1**Synonyms** CCT1, CCTA**Function**

Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of proteins upon ATP hydrolysis (PubMed: [25467444](http://www.uniprot.org/citations/25467444)). The TRiC complex mediates the folding of WRAP53/TCAB1, thereby regulating telomere maintenance (PubMed: [25467444](http://www.uniprot.org/citations/25467444)). As part of the TRiC complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia (PubMed: [20080638](http://www.uniprot.org/citations/20080638)). The TRiC complex plays a role in the folding of actin and tubulin (Probable).

**Cellular Location**

Cytoplasm, cytosol. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

**TCP1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**TCP1 Antibody (N-term) Blocking Peptide - Images****TCP1 Antibody (N-term) Blocking Peptide - Background**

TCP1 is member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight different proteins. Unfolded polypeptides enter the central cavity of the complex and are folded in an ATP-dependent manner. The complex folds various proteins, including actin and tubulin.

**TCP1 Antibody (N-term) Blocking Peptide - References**

Villebeck,L., Moparthi,S.B. Biochemistry 46 (44), 12639-12647 (2007)Tang,W., Shi,Y., Feng,G.J. Neural Transm. 113 (10), 1537-1543 (2006)Yaffe,M.B., Farr,G.W. Nature 358 (6383), 245-248 (1992)