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TCP1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7490b

Specification

TCP1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P17987

TCP1 Antibody (C-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 AP7490b was selected from the C-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 (C-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). The TRiC complex mediates the folding of WRAP53/TCAB1, thereby regulating telomere maintenance (PubMed: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). 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 (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

TCP1 Antibody (C-term) Blocking Peptide - Images

TCP1 Antibody (C-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 (C-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)