

CCT4 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14904a

Specification

CCT4 Antibody (N-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	P50991
Other Accession	Q7TPB1 , NP_006421.2
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57924
Antigen Region	4-32

CCT4 Antibody (N-term) - Additional Information

Gene ID 10575

Other Names

T-complex protein 1 subunit delta, TCP-1-delta, CCT-delta, Stimulator of TAR RNA-binding, CCT4, CCTD, SRB

Target/Specificity

This CCT4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-32 amino acids from the N-terminal region of human CCT4.

Dilution

IHC-P~~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 purified through a protein A column, followed by peptide affinity purification.

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

CCT4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CCT4 Antibody (N-term) - Protein Information

Name CCT4

Synonyms CCTD, SRB

Function Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of actin, tubulin and other proteins upon ATP hydrolysis (PubMed:[25467444](#), PubMed:[36493755](#), PubMed:[35449234](#), PubMed:[37193829](#)). 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](#)).

Cellular Location

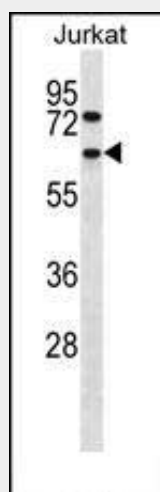
Cytoplasm. Melanosome Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:P80315} Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

CCT4 Antibody (N-term) - Protocols

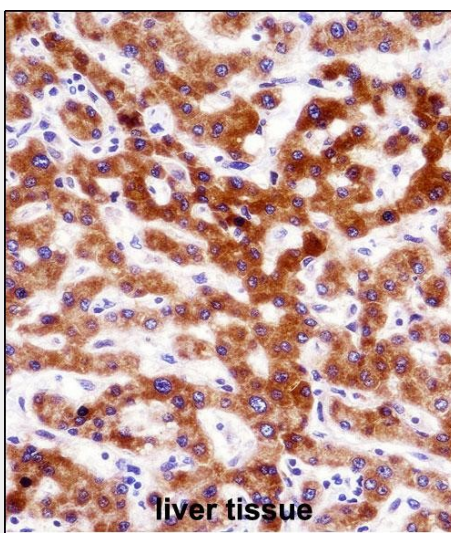
Provided below are standard protocols that you may find useful for product applications.

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

CCT4 Antibody (N-term) - Images



CCT4 Antibody (N-term) (Cat. #AP14904a) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the CCT4 antibody detected the CCT4 protein (arrow).



CCT4 Antibody (N-term) (AP14904a) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CCT4 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CCT4 Antibody (N-term) - Background

The chaperonin containing TCP1 (MIM 186980) complex (CCT), also called the TCP1 ring complex, consists of 2 back-to-back rings, each containing 8 unique but homologous subunits, such as CCT4. CCT assists the folding of newly translated polypeptide substrates through multiple rounds of ATP-driven release and rebinding of partially folded intermediate forms. Substrates of CCT include the cytoskeletal proteins actin (see MIM 102560) and tubulin (see MIM 191130), as well as alpha-transducin (MIM 139330) (Won et al., 1998 [PubMed 9819444]).

CCT4 Antibody (N-term) - References

Mukherjee, K., et al. BMC Evol. Biol. 10, 64 (2010) :
Zebol, J.R., et al. Int. J. Biochem. Cell Biol. 41(4):822-827(2009)
Chi, A., et al. J. Proteome Res. 5(11):3135-3144(2006)
Hillier, L.W., et al. Nature 434(7034):724-731(2005)
Imai, Y., et al. J. Biol. Chem. 278(51):51901-51910(2003)