

**Anti-TCP1 beta Rabbit Monoclonal Antibody**  
Catalog # ABO15640**Specification****Anti-TCP1 beta Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">P78371</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-TCP1 beta Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-TCP1 beta Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 10576

**Other Names**

T-complex protein 1 subunit beta, TCP-1-beta, CCT-beta, Chaperonin containing T-complex polypeptide 1 subunit 2, CCT2, 99D8.1, CCTB

**Calculated MW**

57 kDa KDa

**Application Details**

WB 1:1000-1:5000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human TCP1 beta

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-TCP1 beta Rabbit Monoclonal Antibody - Protein Information**

**Name** CCT2 {ECO:0000303|PubMed:25467444, ECO:0000312|HGNC:HGNC:1615}

## 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:<a href="http://www.uniprot.org/citations/25467444" target="\_blank">25467444</a>, PubMed:<a href="http://www.uniprot.org/citations/36493755" target="\_blank">36493755</a>, PubMed:<a href="http://www.uniprot.org/citations/35449234" target="\_blank">35449234</a>, PubMed:<a href="http://www.uniprot.org/citations/37193829" target="\_blank">37193829</a>). The TRiC complex mediates the folding of WRAP53/TCAB1, thereby regulating telomere maintenance (PubMed:<a href="http://www.uniprot.org/citations/25467444" target="\_blank">25467444</a>). 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:<a href="http://www.uniprot.org/citations/20080638" target="\_blank">20080638</a>).

## Cellular Location

Cytoplasm.

## Anti-TCP1 beta Rabbit Monoclonal Antibody - 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](#)

## Anti-TCP1 beta Rabbit Monoclonal Antibody - Images

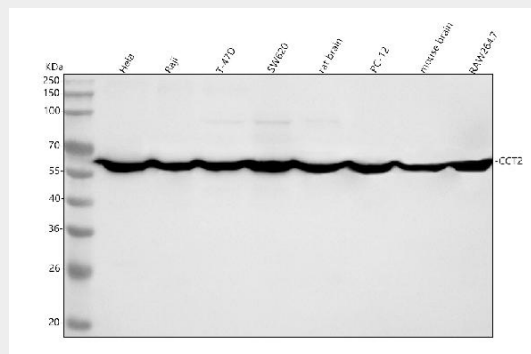


Figure 1. Western blot analysis of TCP1 Beta using anti-TCP1 Beta antibody (M05524-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,  
Lane 2: human Raji whole cell lysates,  
Lane 3: human T-47D whole cell lysates,  
Lane 4: human SW620 whole cell lysates,  
Lane 5: rat brain tissue lysates,  
Lane 6: rat PC-12 whole cell lysates,  
Lane 7: mouse brain tissue lysates,

Lane 8: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TCP1 Beta antigen affinity purified monoclonal antibody (Catalog # M05524-2) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TCP1 Beta at approximately 57 kDa. The expected band size for TCP1 Beta is at 57 kDa.