



## Rabbit Anti-TCP1 beta antibody

SL11267R

|                               |   |
|-------------------------------|---|
| <b>Product Name:</b>          | TCP1 beta   |
| <b>Chinese Name:</b>          | 分子伴侣复合体TCP-1 $\beta$ 抗体   |
| <b>Alias:</b>                 | CCT2; CCT 2; CCT beta; CCT-beta; CCT-2; CCTB; Chaperonin containing t complex polypeptide 1 beta subunit; Chaperonin containing t complex polypeptide 1 subunit 2; Chaperonin containing TCP1 subunit 2; Chaperonin containing TCP1 subunit 2 (beta); CTP:phosphocholine cytidyltransferase 2; MGC142074; MGC142076; MGC94480; PRO1633; T complex protein 1 beta subunit; T complex protein 1 subunit beta; T-complex protein 1 subunit beta; TCP 1 beta; TCP-1-beta; TCPB HUMAN; 99D8.1. |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep,   |
| <b>Applications:</b>          | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 57 kDa  |
| <b>Cellular localization:</b> | cytoplasmic   |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human CCT2:131-230/535  |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | CCT2 is one of eight largely unrelated subunit proteins found in a protein chaperone complex known as the chaperonin-containing TCP-1 (CCT) or TRiC complex. The CCT  |

complex is an abundant cytosolic component that is credited with helping newly synthesized polypeptides adopt the correct conformation (1). Proteins that fold and assemble with the help of CCT include the cytoskeletal proteins actin and tubulin as well as up to 15% of newly synthesized eukaryotic proteins (2). CCT2 is the  $\beta$ -subunit of the chaperone complex and is one of several CCT proteins that exhibit increased expression in response to stress. This implies that the CCT complex helps cells recover from protein damage by assisting in protein folding and assembly (3). CCT subunit levels also change throughout the cell cycle, with lower protein levels (and reduced chaperone activity) found during induced cell cycle arrest during M phase (4). Each CCT subunit is thought to perform a specific function during protein folding and assembly (5); CCT2 exhibits both actin and tubulin binding activities (6,3) but the exact molecular function on this subunit remains uncertain.

**Function:**

Molecular chaperone; assists the folding of proteins upon ATP hydrolysis. As part of the BBS/CCT complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. Known to play a role, in vitro, in the folding of actin and tubulin.

**Subunit:**

Heterooligomeric complex of about 850 to 900 kDa that forms two stacked rings, 12 to 16 nm in diameter. Interacts with PACRG. Component of the BBS/CCT complex composed of at least of MKKS, BBS10, BBS12, TCP1, CCT2, CCT3, CCT4, CCT5 AND CCT8.

**Subcellular Location:**

Cytoplasm.

**Similarity:**

Belongs to the TCP-1 chaperonin family.

**SWISS:**

P78371

**Gene ID:**

10576

**Database links:**

[Entrez Gene: 10576](#) Human

[Entrez Gene: 12461](#) Mouse

[Entrez Gene: 299809](#) Rat

[Omim: 605139](#) Human

[SwissProt: P78371](#) Human

[SwissProt: P80314](#) Mouse

[SwissProt: Q5XIM9](#) Rat

[Unigene: 189772](#) Human

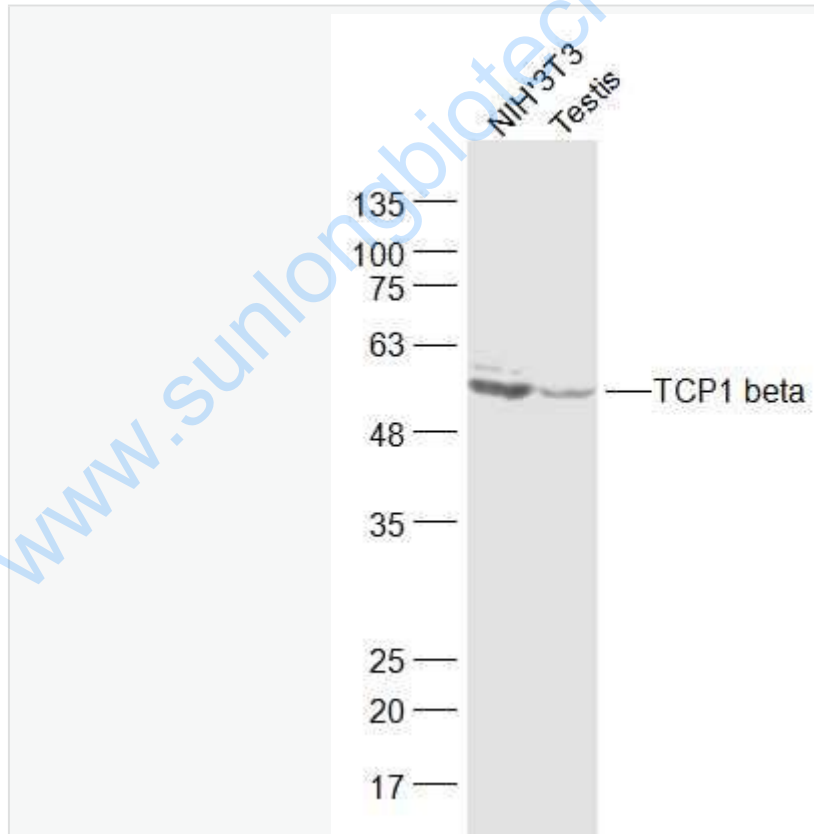
[Unigene: 247788](#) Mouse

[Unigene: 2392](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

NIH/3T3(Mouse) Cell Lysate at 30 ug

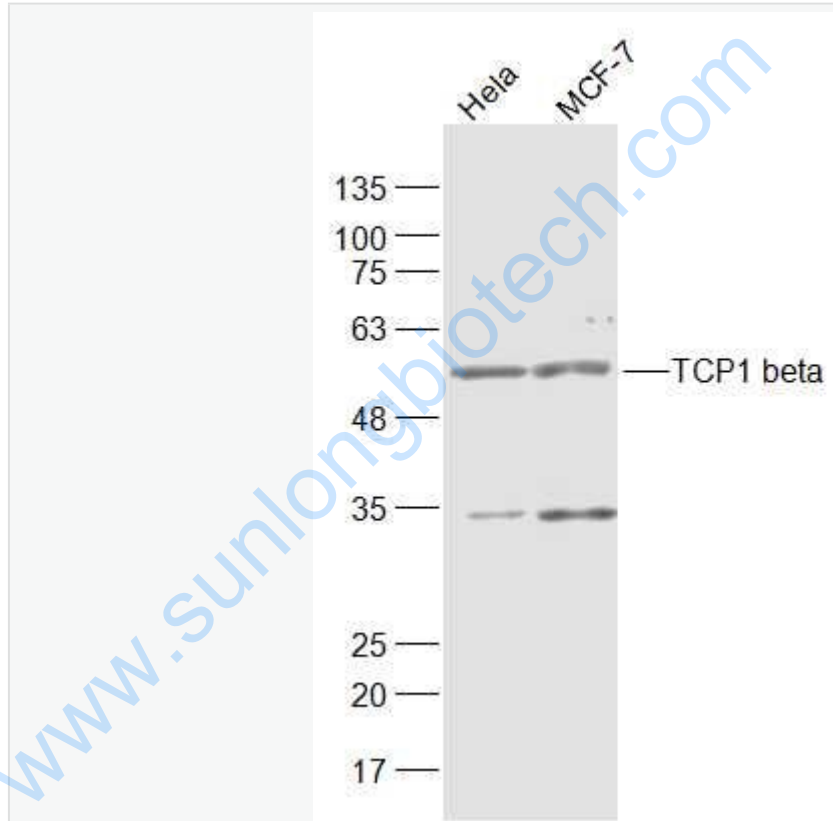
Testis (Mouse) Lysate at 40 ug

Primary: Anti-TCP1 beta (SL11267R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 57 kD

Observed band size: 57 kD



Sample:

HeLa(Human) Cell Lysate at 30 ug

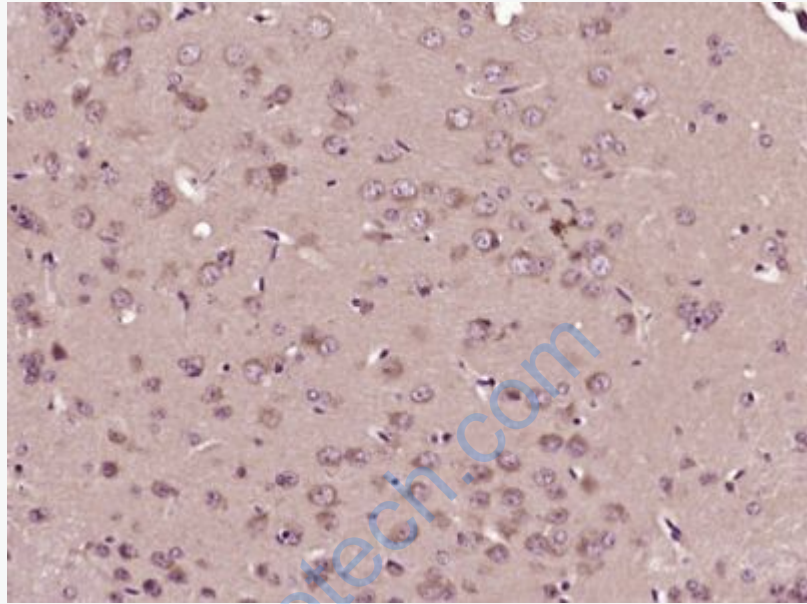
MCF-7(Human) Cell Lysate at 30 ug

Primary: Anti-TCP1 beta (SL11267R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 57 kD

Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TCP1 beta) Polyclonal Antibody, Unconjugated (SL11267R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.