
Product Name: KD-Validated T-Complex 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00804

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 60.3kDa

Antigen Information

Gene Name	TCP1 TCP1; T-Complex 1; CCT1; D6S230E; Ccta; T-Complex Protein 1 Subunit Alpha; TCP-1-Alpha;
Alternative Names	CCT-Alpha; T-Complex Protein 1, Alpha Subunit; Tailless Complex Polypeptide 1; T-Complex 1 Protein; CCTA
Gene ID	6950.0
SwissProt ID	P17987
Immunogen	A synthesized peptide derived from human TCP1 alpha

Background

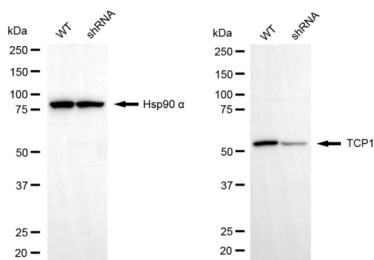
The protein encoded by this gene is a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight

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. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized. In addition, three pseudogenes that appear to be derived from this gene have been found. [provided by RefSeq, Jun 2010]

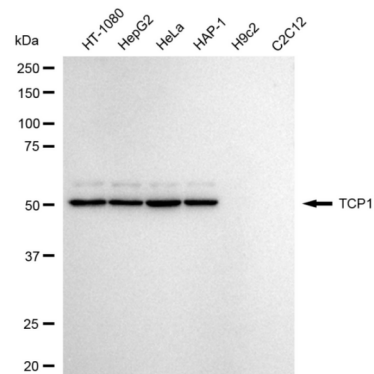
Research Area

Signal Transduction

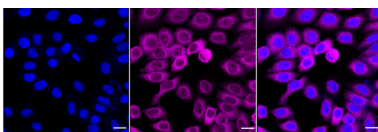
Image Data



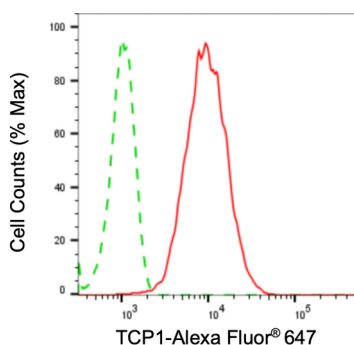
Western blotting analysis using TCP1 antibody (KVA00804). TCP1 expression in wild type (WT) and TCP1 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TCP1 antibody (KVA00804, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using TCP1 antibody (KVA00804). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TCP1 antibody (KVA00804, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with TCP1 antibody (KVA00804, 1:1,000). Nuclei were stained blue with DAPI; TCP1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of TCP1 expression in HepG2 cells using TCP1 antibody (KVA00804, 1:2,000). Green, isotype control; red, TCP1.