10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-TCP1 Alpha Picoband Antibody

Catalog # ABO12512

Product Information

Application	WB, IHC-P
Primary Accession	P17987
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for T-complex protein 1 subunit alpha(TCP1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6950
Other Names	T-complex protein 1 subunit alpha, TCP-1-alpha, CCT-alpha, TCP1, CCT1, CCTA
Calculated MW	60344
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.
Source	Eukaryota
Protein Name	T-complex protein 1 subunit alpha
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TCP1 alpha (515-551aa KFATEAAITILRIDDLIKLHPESKDDKHGSYEDAVHS), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also

be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name TCPA

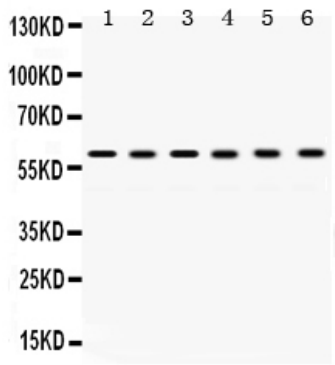
Function Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of actin, tubulin and other proteins upon ATP hydrolysis (PubMed:25467444, PubMed:36493755, PubMed:35449234, PubMed:37193829). The TRiC complex mediates the folding of WRAP53/TCAB1, 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, cytosol. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

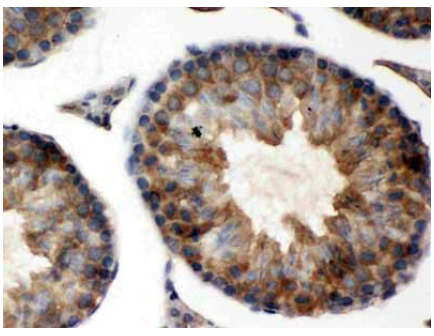
Background

T-complex protein 1 subunit alpha is a protein that in humans is encoded by the TCP1 gene. 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.

Images

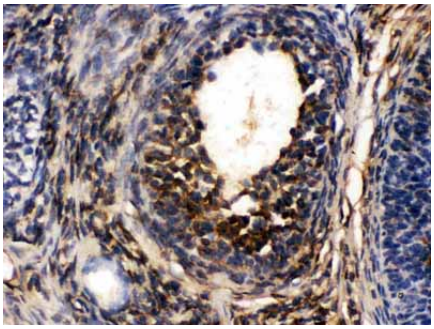


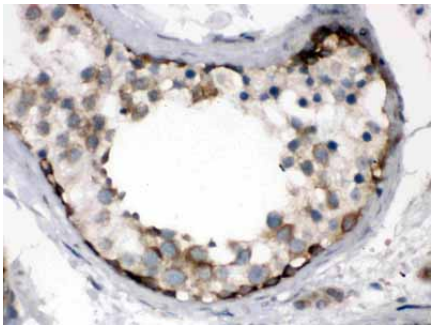
Anti- TCP1 alpha Picoband antibody, ABO12512, Western blottingAll lanes: Anti TCP1 alpha (ABO12512) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Testis Tissue Lysate at 50ugLane 3: Mouse Spleen Tissue Lysate at 50ugLane 4: Mouse Thymus Tissue Lysate at 50ugLane 5: HELA Whole Cell Lysate at 40ugLane 6: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 60KDObserved bind size: 60KD



Anti- TCP1 alpha Picoband antibody, ABO12512, IHC(P)IHC(P): Mouse Testis Tissue

Anti- TCP1 alpha Picoband antibody, ABO12512, IHC(P)IHC(P): Rat Ovary Tissue





Anti- TCP1 alpha Picoband antibody, ABO12512, IHC(P)IHC(P): Human Testis Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.