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Anti-TCP1 Alpha Picoband Antibody

Catalog # ABO12512

Specification

Anti-TCP1 Alpha Picoband Antibody - 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.

Anti-TCP1 Alpha Picoband Antibody - Additional Information

Gene ID 6950

Other Names
T-complex protein 1 subunit alpha, TCP-1-alpha, CCT-alpha, TCP1, CCT1, CCTA

Calculated MW
60344 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.

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.**

Anti-TCP1 Alpha Picoband Antibody - 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

Anti-TCP1 Alpha Picoband 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 Cytomety
- Cell Culture

Anti-TCP1 Alpha Picoband Antibody - Images

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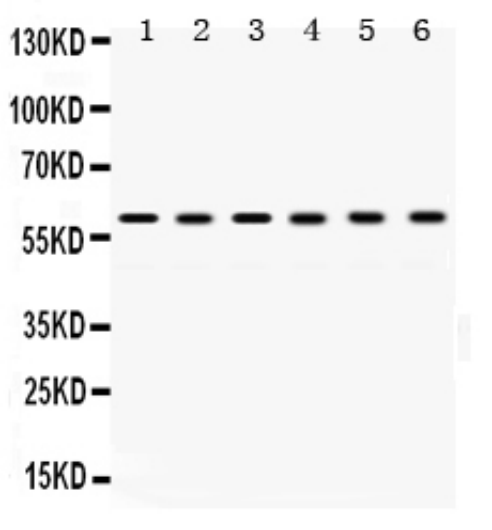
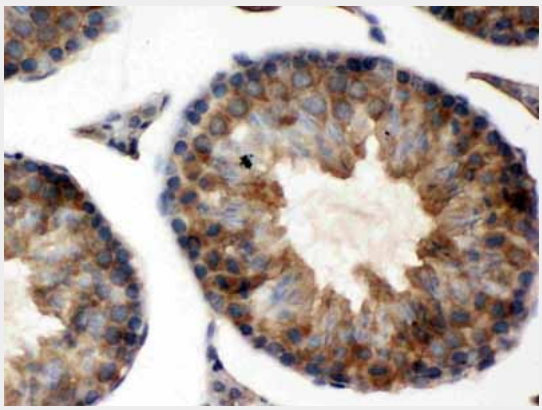
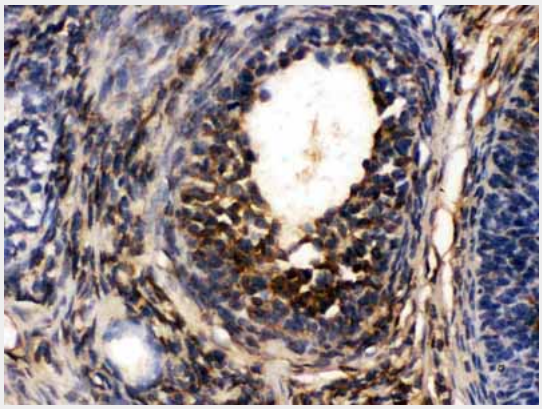


Anti- TCP1 alpha Picoband antibody, ABO12512, Western blottingAll lanes: Anti TCP1 alpha (ABO12512) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Testis Tissue Lysate at 50ugLane 3: Mouse Spleen Tissue Lysate at 50ugLane 4: Mouse Thymus Tissue Lysate at 50ugLane 5: HELA Whole Cell Lysate 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

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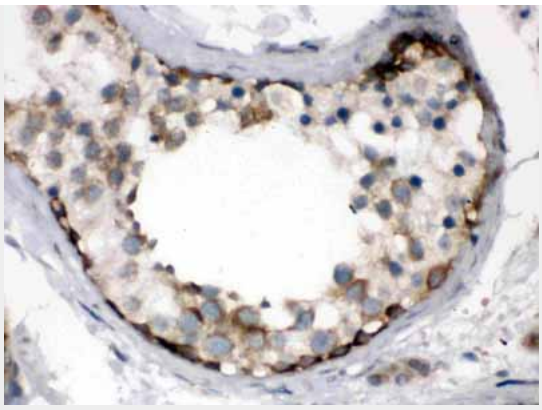

Anti- TCP1 alpha Picoband antibody, ABO12512, IHC(P)IHC(P): Human Testis Tissue

Anti-TCP1 Alpha Picoband Antibody - 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.