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

Goat Anti-TCP1 Antibody

Peptide-affinity purified goat antibody

Catalog # AF2076a

Specification

Goat Anti-TCP1 Antibody - Product Information

Application	**WB, IHC, E**
Primary Accession	P17987
Other Accession	NP_001008897, 6950
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**60344**

Goat Anti-TCP1 Antibody - Additional Information

Gene ID 6950

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

Dilution
WB~~1:1000
IHC~~1:100~500
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-TCP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-TCP1 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:<a

href="http://www.uniprot.org/citations/25467444" target="_blank">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).

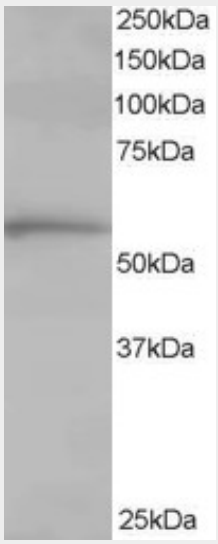
Cellular Location
Cytoplasm, cytosol. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

Goat Anti-TCP1 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

Goat Anti-TCP1 Antibody - Images



AF2076a staining (1 µg/ml) of Human Lung lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

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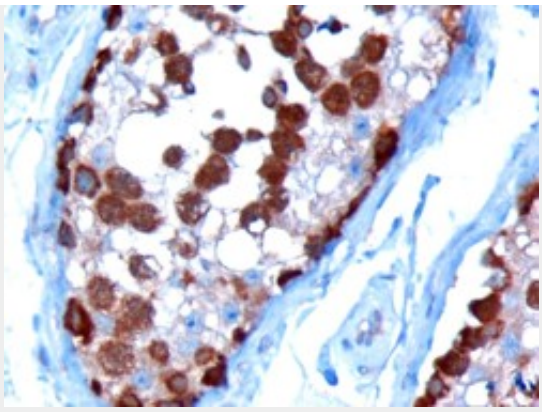

AF2076a (10 µg/ml) staining of paraffin embedded Human Testis. Microwaved antigen retrieval with Tris/EDTA buffer pH9, HRP-staining.

Goat Anti-TCP1 Antibody - 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.

Goat Anti-TCP1 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
Chaperonin genes on the rise: new divergent classes and intense duplication in human and other vertebrate genomes. Mukherjee K, et al. BMC Evol Biol, 2010 Mar 1. PMID 20193073.
Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.
Functions of membrane binding domain of CTP:phosphocholine cytidylyltransferase in alveolar type II cells. Ridsdale R, et al. Am J Respir Cell Mol Biol, 2010 Jul. PMID 19684306.
A genome-wide association study identifies novel and functionally related susceptibility Loci for Kawasaki disease. Burgner D, et al. PLoS Genet, 2009 Jan. PMID 19132087.