

For Research Use Only

# CCT5 Polyclonal antibody

Catalog Number: 11603-1-AP

Featured Product

10 Publications



## Basic Information

**Catalog Number:**

11603-1-AP

**Size:**

450 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2146

**GenBank Accession Number:**

BC035499

**GeneID (NCBI):**

22948

**UNIPROT ID:**

P48643

**Full Name:**

chaperonin containing TCP1, subunit 5 (epsilon)

**Calculated MW:**

541 aa, 60 kDa

**Observed MW:**

60 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, IHC, CoIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, chicken, mouse

**Positive Controls:**

**WB:** COLO 320 cells, A431 cells, HEK-293 cells, HeLa cells

**IP:** HeLa cells,

**IHC:** human colon cancer tissue, mouse colon tissue

**IF:** HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

CCT5 is a subunit of chaperonin containing TCP1 complex that is also known as the TCP1 ring complex (TRiC). CCT5 involves enhancing Wnt/β-catenin signalling activity in GCs through abrogating the interaction between E-cadherin and β-catenin (PMID: 35194191). The expression levels of CCT5 have been found to be upregulated in types of cancers, including breast cancer, colon cancer, lung cancer, glioblastoma, hepatocellular carcinoma and ovarian cancer (PMID: 36768350). Human CCT5 consist of 541 amino acids organized in β-sheets and α-helices distributed into three domains and has a predicted molecular weight of 60 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaohan Zhang	33178142	Front Microbiol	WB,IF
Yiliang Meng	34217974	Biochem Biophys Res Commun	WB,IHC,IF
Yu-Cheng Zhang	33475699	J Cell Biol	WB, IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

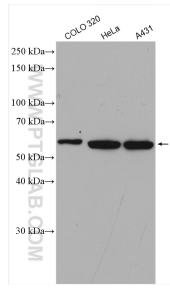
T: 4006900926

E: Proteintech-CN@ptglab.com

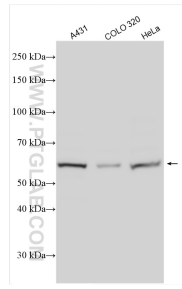
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

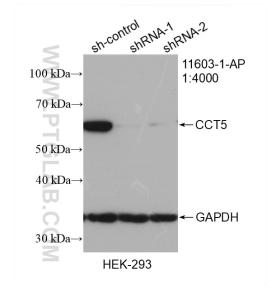
## Selected Validation Data



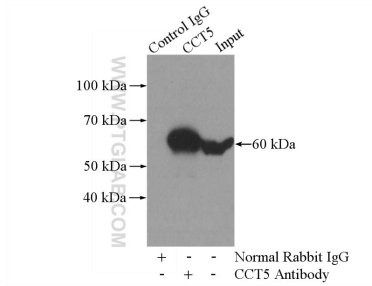
Various lysates were subjected to SDS PAGE followed by western blot with 11603-1-AP (CCT5 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



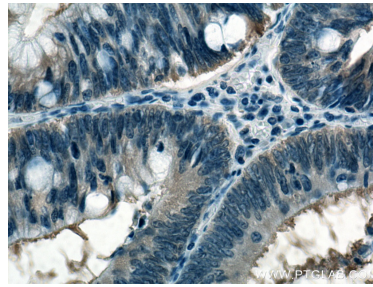
Various lysates were subjected to SDS PAGE followed by western blot with 11603-1-AP (CCT5 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



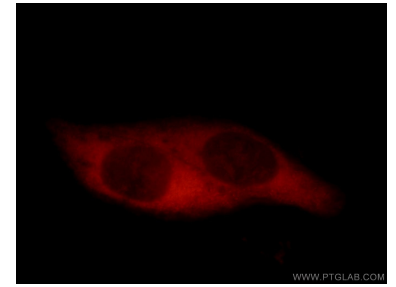
WB result of CCT5 antibody (11603-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CCT5 transfected HEK-293 cells.



IP result of anti-CCT5 (IP:11603-1-AP, 4ug; Detection:11603-1-AP 1:1000) with HeLa cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11603-1-AP (CCT5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using CCT5 antibody 11603-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).