For Research Use Only

CCT5 Polyclonal antibody

Catalog Number:11603-1-AP Featured Product 10 Publications

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Basic Information

Catalog Number:
11603-1-AP

Size:
150ul , Concentration: 450 µg/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IP, IF, IHC, ELISA

Cited Applications:
WB, IF, IHC, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, chicken, mouse

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

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/ICC : HepG2 cells,

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-helixes 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

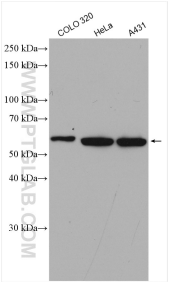
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

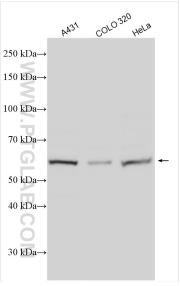
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

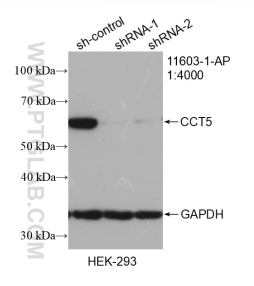
Selected Validation Data



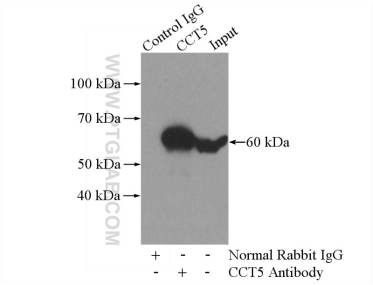
Various lysates were subjected to SDS PAGE followed by western blot with 11603-1-AP (CCT5 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



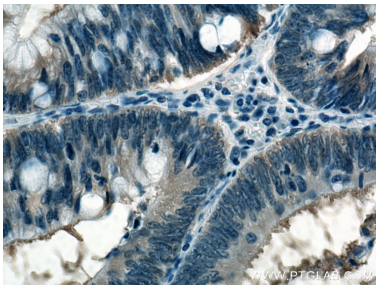
Various lysates were subjected to SDS PAGE followed by western blot with 11603-1-AP (CCT5 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



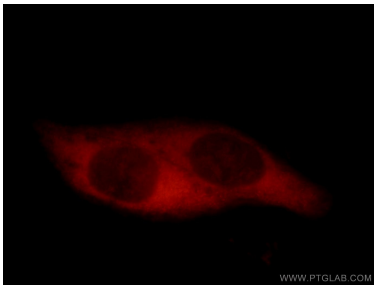
WB result of CCT5 antibody (11603-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CCT5 transfected HEK-293 cells.



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).