

For Research Use Only

# CNOT9 Polyclonal antibody

Catalog Number: 22503-1-AP

Featured Product

18 Publications



## Basic Information

### Catalog Number:

22503-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18197

### GenBank Accession Number:

BC007102

### GeneID (NCBI):

9125

### UNIPROT ID:

Q92600

### Full Name:

RCD1 required for cell differentiation1 homolog (S. pombe)

### Calculated MW:

299 aa, 34 kDa

### Observed MW:

30-40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP, ColP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, 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: HeLa cells, MCF-7 cells, mouse thymus tissue, HepG2 cells

IP: MCF-7 cells,

IHC: human stomach cancer tissue, rat colon tissue

IF/ICC: HepG2 cells, hTERT-RPE1 cells

## Background Information

RQCD1, also known as CNOT9, is a highly conserved transcriptional cofactor predominantly expressed in actively differentiating tissues like testis and thymus. It is a component of the CCR4-NOT complex, the major effector complex in miRNA-mediated gene silencing. Overexpression of RQCD1 has been reported in several tumors, indicating that it may be a potential molecular target for cancer treatment.

## Notable Publications

Author	Pubmed ID	Journal	Application
Alberto Carreño	35920669	Mol Cell Biol	WB, ColP
Marta Mauri	27604873	Nucleic Acids Res	WB
Jessica Sheu-Gruttadauria	29576456	Cell	WB

## 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

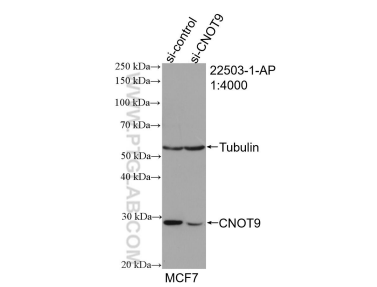
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

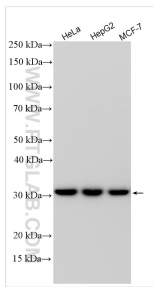
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

Selected Validation Data



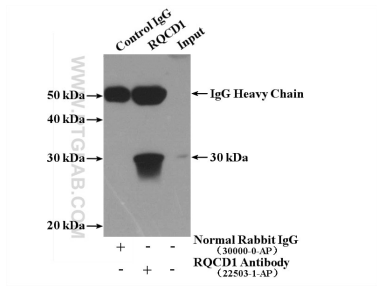
WB result of CNOT9 antibody (22503-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CNOT9 transfected MCF-7 cells.



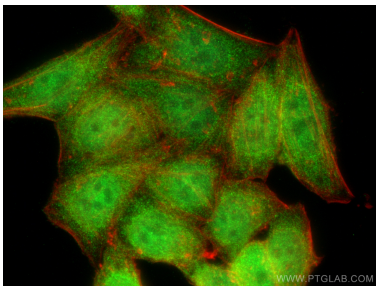
Various lysates were subjected to SDS PAGE followed by western blot with 22503-1-AP (CNOT9 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



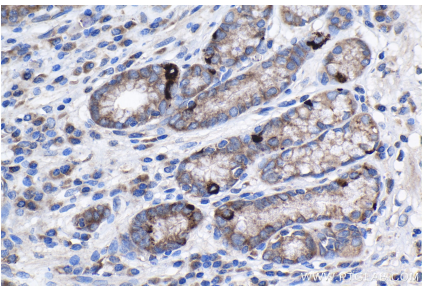
mouse thymus tissue were subjected to SDS PAGE followed by western blot with 22503-1-AP (RQCD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



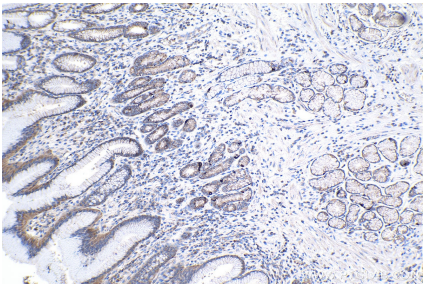
IP result of anti-CNOT9 (IP:22503-1-AP, 4ug; Detection:22503-1-AP 1:1000) with MCF-7 cells lysate 1280ug.



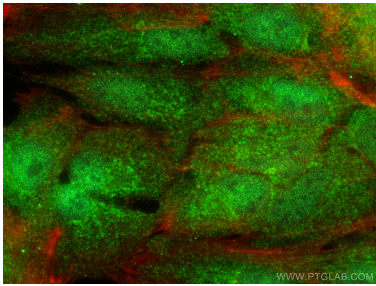
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CNOT9 antibody (22503-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 22503-1-AP (CNOT9 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 22503-1-AP (CNOT9 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using CNOT9 antibody (22503-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).