

For Research Use Only

# CNOT1 Monoclonal antibody

Catalog Number: 66507-1-Ig

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

66507-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG5623

**GenBank Accession Number:**

BC040523

**GeneID (NCBI):**

23019

**UNIPROT ID:**

A5YKK6

**Full Name:**

CCR4-NOT transcription complex, subunit 1

**Calculated MW:**

267 kDa

**Observed MW:**

240-250 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1A10A11

**Recommended Dilutions:**

WB 1:2000-1:10000

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Cited Applications:**

IF, WB

**Species Specificity:**

Human, mouse, rat, pig

**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:** U2OS cells, A549 cells, HEK-293 cells, human cerebellum tissue, pig kidney tissue, mouse kidney tissue, HeLa cells, LNCaP cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

**IHC:** human heart tissue,

**IF:** HepG2 cells,

## Background Information

CNOT1 is a component of CCR4-NOT protein complex, which is a regulator of RNA polymerase II transcription, acts as a transcription repressor. CCR4-NOT complex could participate in transcription as well as mRNA degradation. It's highly expressed in brain, heart, thymus, but weak in skeletal muscle and colon. CNOT1 undergoes alternative splicing to produce four isoforms. CNOT1 exists as many isoforms. The isoform one is about 267 kDa and the isoform four is about 173 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Roy Matkovic	35013187	Nat Commun	WB
Aishe A Sarshad	30146314	Mol Cell	WB
Nicolas Curdy	36884350	Cell Rep	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:

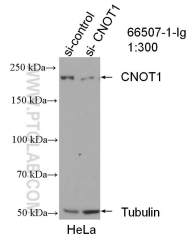
T: 4006900926

E: Proteintech-CN@ptglab.com

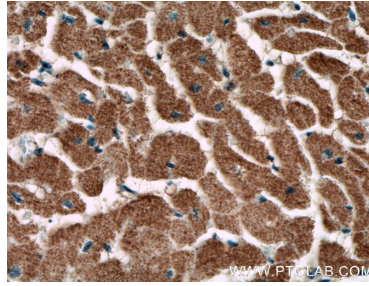
W: ptgcn.com

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

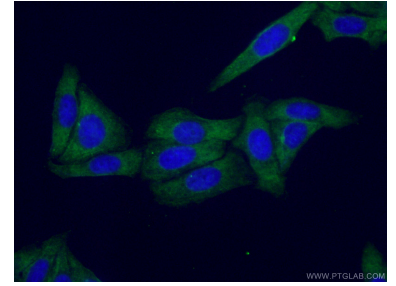
## Selected Validation Data



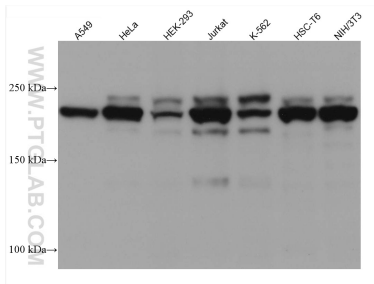
WB result of CNOT1 antibody (66507-1-Ig; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-CNOT1 transfected HeLa cells.



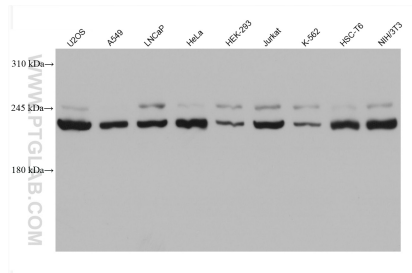
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66507-1-Ig (CNOT1 antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66507-1-Ig (CNOT1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 66507-1-Ig (CNOT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66507-1-Ig (CNOT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.