

# CNOT1

## Monoclonal ANTIBODY

Catalog Number: 66507-1-Ig

Featured Product

1 Publications

### Basic Information

Catalog Number:  
66507-1-Ig

Size:  
150 µg/150 µl

Source:  
Mouse

Isotype:  
IgG1

Purification Method:  
Protein G purification

Immunogen Catalog Number:  
AC5623

GenBank Accession Number:  
BC040523

GeneID (NCBI):  
23019

Full Name:  
CCR4-NOT transcription complex, subunit 1

Calculated MW:  
267 kDa

Observed MW:  
240-250 kDa

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF 1:50-1:500

### Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

mouse

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

Positive Controls:

WB : human cerebellum tissue; HEK-293 cells, pig kidney tissue, mouse kidney tissue, HeLa 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
Aishe A. Sarshad	30146314	Mbl Cell	WB

### Storage

Storage:

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

Storage Buffer:

PBS with 0.1% 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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

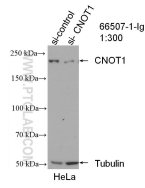
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

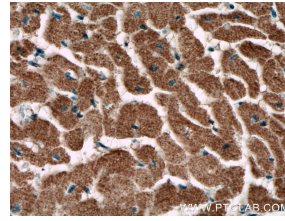
## Selected Validation Data



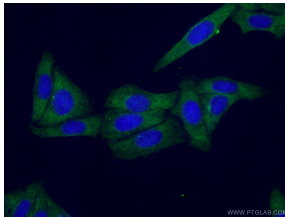
human cerebellum tissue were subjected to SDS PAGE followed by western blot with 66507-1-Ig (CNOT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



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



Immunohistochemistry 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)