For Research Use Only

# CNOT1 Polyclonal antibody

Catalog Number:14276-1-AP Featured Product 85 Publications

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## Basic Information

Catalog Number:
14276-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop and 273 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

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, 174 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:1000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500
IF/ICC: 1:50-1:500

## Applications

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

Cited Applications:
WB, IHC, IF, IP, CoIP, chIP, RIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, pig

***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 : human brain tissue, HEK293 cells, mouse kidney tissue, mouse spleen tissue, mouse thymus tissue, HEK-293 cells, mouse brain tissue, mouse heart tissue, HeLa cells

IP : mouse kidney tissue, HeLa cells

IHC : human heart tissue, human spleen tissue, human kidney tissue

IF/ICC : HEK-293 cells, sodium arsenite treated HeLa 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.This is a rabbit polyclonal antibody raised against part chain of C-terminal CNOT1 of human origin. CNOT1 exsits as many isoforms and molecular weight of isoforms are 267, 241 and 173 kDa.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Lior Lasman | 32943573 | Genes Dev | WB |
| Alberto Carreño | 35920669 | Mol Cell Biol | WB,CoIP |
| Jungyun Park | 31519907 | Nat Commun | WB |

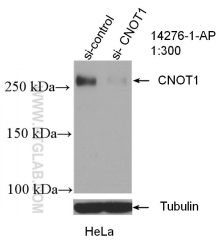
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

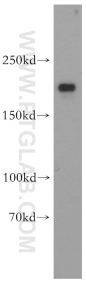
*** 20ul sizes contain 0.1% BSA

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

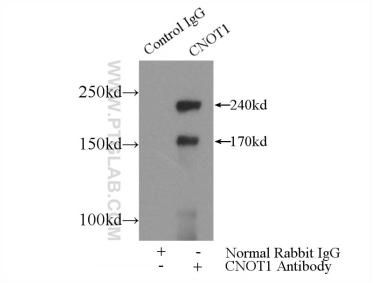
## Selected Validation Data



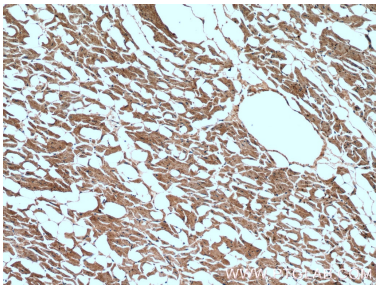

WB result of CNOT1 antibody (14276-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-CNOT1 transfected HeLa cells.



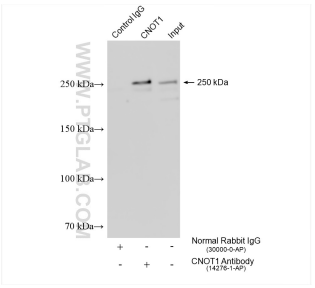

human brain tissue were subjected to SDS PAGE followed by western blot with 14276-1-AP (CNOT1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



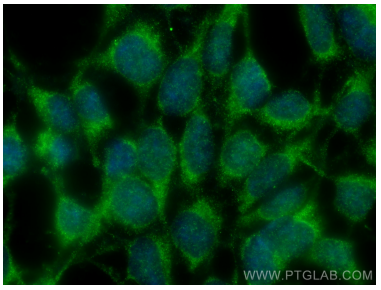

IP result of anti-CNOT1 (IP:14276-1-AP, 5ug; Detection:14276-1-AP 1:500) with mouse kidney tissue lysate 4000ug.



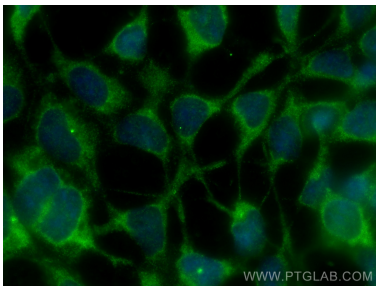
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 14276-1-AP (CNOT1 Antibody) at dilution of 1:200 (under 10x lens).



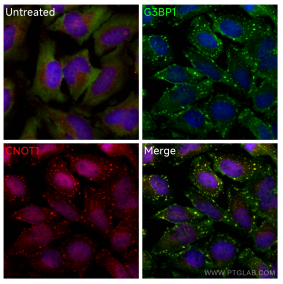

IP result of anti-CNOT1 (IP:14276-1-AP, 4ug; Detection:14276-1-AP 1:600) with HeLa cells lysate 1085 ug.




Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using CNOT1 antibody (14276-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).




Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using CNOT1 antibody (14276-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).




Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using CNOT1 antibody (14276-1-AP, red) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), G3BP1 antibody (66486-1-Ig, Clone:1E4A2, green).