CNOT1 Polyclonal antibody

Catalog Number: 14276-1-AP

Basic Information

- **Catalog Number:** 14276-1-AP
- **Size:** 150µl, Concentration: 500 µg/ml by Nanodrop and 273 µg/ml by Bradford method using BSA as the standard
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG5623

GenBank Accession Number: BC040523
GeneID (NCBI): 23019

- **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 µg for IP and 1:500-1:1000 for WB
- **IHC:** 1:50-1:500
- **IF:** 1:50-1:500

Applications

- **Tested Applications:** IF, IHC, IP, WB, ELISA
- **Cited Applications:** chIP, CoIP, IF, IHC, IP, WB

Species Specificity:
- human, mouse, rat
- human, mouse, pig

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
- **IHC:** human heart tissue, human spleen tissue, human kidney tissue
- **IF:** HEK-293 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 exists as many isoforms and molecular weight of isoforms are 267, 241 and 173 kDa.

Notable Publications

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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***
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).

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).