

CNOT4 Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1462d**Specification**

CNOT4 Antibody - Product Information

Application	WB, FC, IHC-P,E
Primary Accession	O95628
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

CNOT4 Antibody - Additional Information**Gene ID** 4850**Other Names**

CCR4-NOT transcription complex subunit 4, 632-, CCR4-associated factor 4, E3 ubiquitin-protein ligase CNOT4, Potential transcriptional repressor NOT4Hp, CNOT4, NOT4

Target/Specificity

This CNOT4 antibody is generated from rabbits immunized with human CNOT4 recombinant protein.

Dilution

WB~~1:2000

FC~~1:25

IHC-P~~1:250

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CNOT4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CNOT4 Antibody - Protein Information**Name** CNOT4**Synonyms** NOT4

Function Has E3 ubiquitin ligase activity, promoting ubiquitination and degradation of target proteins (PubMed:[11823428](#), PubMed:[22159038](#), PubMed:[26575292](#)). Involved in activation of the JAK/STAT pathway (PubMed:[11823428](#), PubMed:[22159038](#)). Catalyzes ubiquitination of methylated RBM15 (PubMed:[26575292](#)). Plays a role in quality control of translation of mitochondrial outer membrane-localized mRNA (PubMed:[29861391](#)). As part of the PINK1-regulated signaling, upon mitochondria damage, ubiquitinates ABCE1 and thereby recruits autophagy receptors to the mitochondrial outer membrane to initiate mitophagy (PubMed:[29861391](#)).

Cellular Location

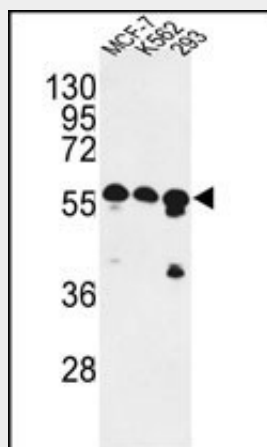
Cytoplasm. Nucleus.

CNOT4 Antibody - Protocols

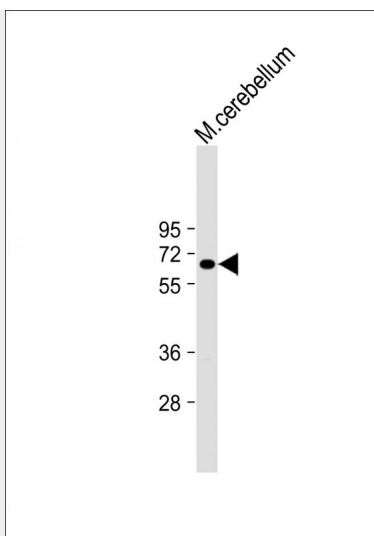
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

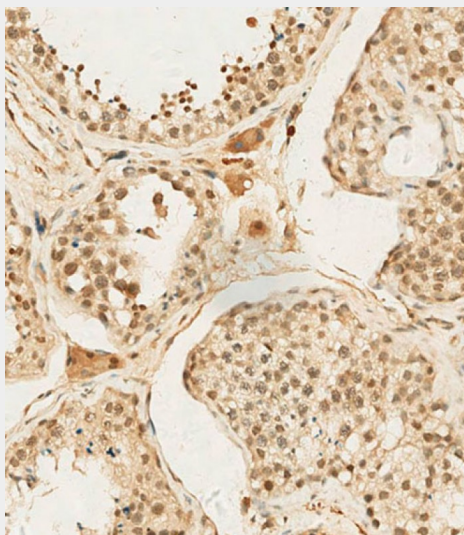
CNOT4 Antibody - Images



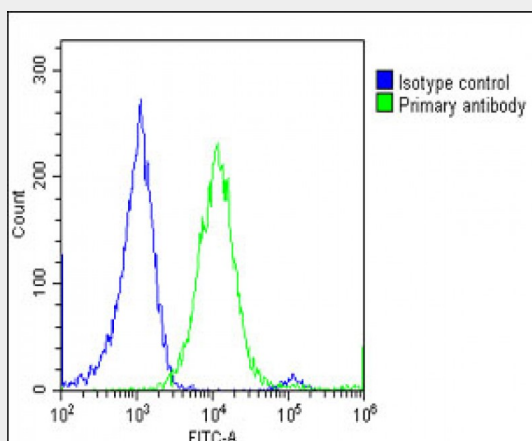
Western blot analysis of CNOT4 Antibody (Cat. #AP1462d) in MCF-7, K562, 293 cell line lysates (35ug/lane). CNOT4 (arrow) was detected using the purified Pab.



Anti-CNOT4 Antibody (N-Term) at 1:2000 dilution + Mouse cerebellum lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 64 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



AP1462D staining CNOT4 in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/250) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing U-2 OS cells stained with AP1462d(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP1462d, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

CNOT4 Antibody - Background

CNOT4 has intrinsic E3 ubiquitin ligase activity. Binding of the CNOT4 RING finger to the ubiquitin-conjugating enzyme (E2) Ubch5B is highly selective. The CCR4-NOT complex functions as a global regulator of RNA polymerase II transcription.

CNOT4 Antibody - References

Albert T.K., Nucleic Acids Res. 28:809-817(2000).
Albert T.K., EMBO J. 21:355-364(2002).