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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).

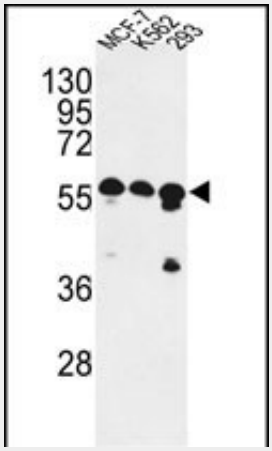
Cellular Location
Cytoplasm. Nucleus.

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 Cytomety
- 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.

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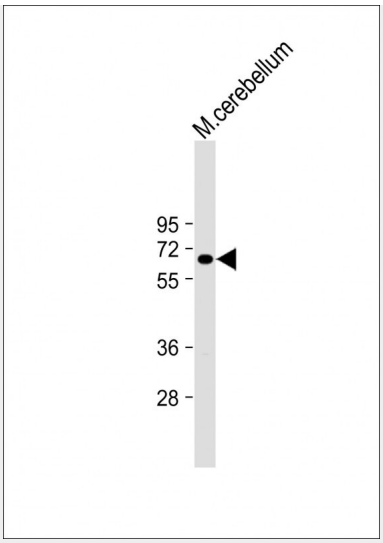
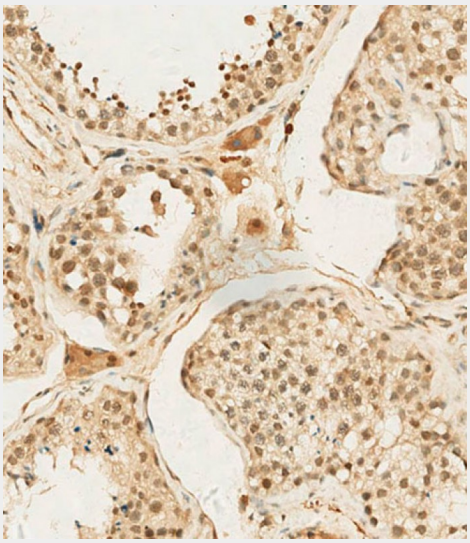
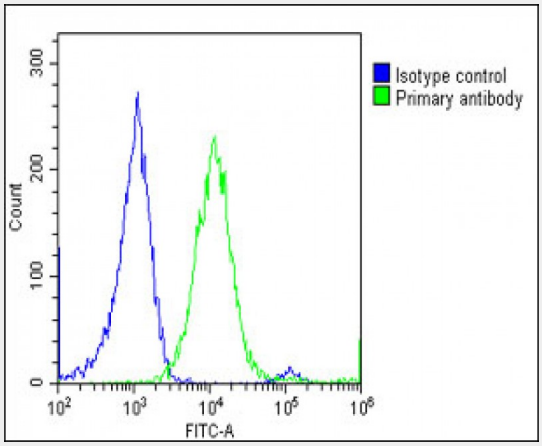


Anti-CNOT4 Antibody (N-Term) at 1:2000 dilution + Mouse cerebellum lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 64 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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 icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP1462d, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 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).