

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

**Specification**

**CNOT4 Antibody - Product Information**

Application	<b>WB, IHC-P, FC,E</b>
Primary Accession	<a href="#">O95628</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>

**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~~1:1000  
IHC-P~~1:250  
FC~~1:25

**Format**

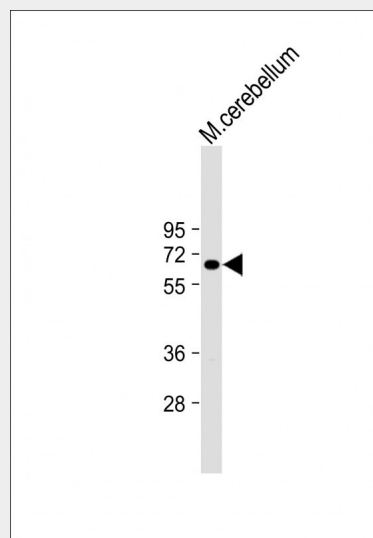
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

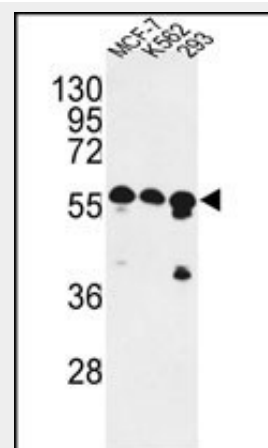
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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



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.



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.

## CNOT4 Antibody - Protein Information

**Name** CNOT4

**Synonyms** NOT4

### Function

Has E3 ubiquitin ligase activity, promoting ubiquitination and degradation of target proteins (PubMed:<a href="http://www.uniprot.org/citations/11823428" target="\_blank">11823428</a>, PubMed:<a href="http://www.uniprot.org/citations/22159038" target="\_blank">22159038</a>, PubMed:<a href="http://www.uniprot.org/citations/26575292" target="\_blank">26575292</a>). Involved in activation of the JAK/STAT pathway (PubMed:<a href="http://www.uniprot.org/citations/11823428" target="\_blank">11823428</a>, PubMed:<a href="http://www.uniprot.org/citations/22159038" target="\_blank">22159038</a>). Catalyzes ubiquitination of methylated RBM15 (PubMed:<a href="http://www.uniprot.org/citations/26575292" target="\_blank">26575292</a>). Plays a role in quality control of translation of mitochondrial outer membrane-localized mRNA (PubMed:<a href="http://www.uniprot.org/citations/29861391" target="\_blank">29861391</a>). 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:<a href="http://www.uniprot.org/citations/29861391" target="\_blank">29861391</a>).

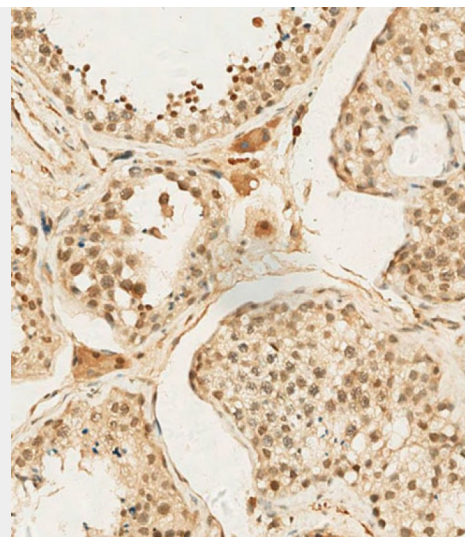
### Cellular Location

Cytoplasm. Nucleus.

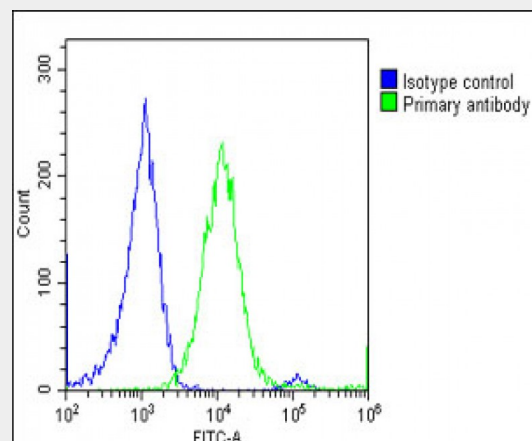
## CNOT4 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)



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 (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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).