

# CNOT4 Antibody

Mouse Monoclonal Antibody (Mab)

Catalog # AM1956b

## Product Information

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Application	WB, E
Primary Accession	<a href="#">O95628</a>
Other Accession	<a href="#">NP_037448.2</a> , <a href="#">NP_001177776.1</a>
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Names	343CT14.6.5
Calculated MW	63510

## Additional Information

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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 monoclonal antibody is generated from mouse immunized with CNOT4 recombinant protein.
Dilution	WB~~1:8000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
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.

## Protein Information

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Name	CNOT4
Synonyms	NOT4
Function	Has E3 ubiquitin ligase activity, promoting ubiquitination and degradation of target proteins (PubMed: <a href="#">11823428</a> , PubMed: <a href="#">22159038</a> ,

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.

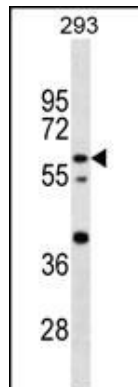
## Background

The protein encoded by this gene is a subunit of the CCR4-NOT complex, a global transcriptional regulator. The encoded protein interacts with CNOT1 and has E3 ubiquitin ligase activity. Several transcript variants encoding different isoforms have been found for this gene.

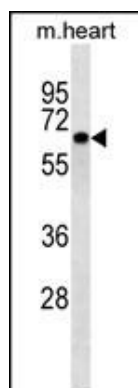
## References

Rose, J. Phd, et al. Mol. Med. (2010) In press :  
 Lau, N.C., et al. Biochem. J. 422(3):443-453(2009)  
 Mersman, D.P., et al. Genes Dev. 23(8):951-962(2009)  
 Matsuoka, S., et al. Science 316(5828):1160-1166(2007)  
 Winkler, G.S., et al. J. Mol. Biol. 337(1):157-165(2004)

## Images

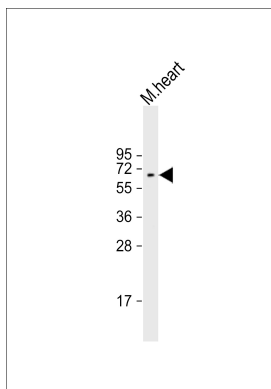


CNOT4 Antibody (Cat. #AM1956b) western blot analysis in 293 cell line lysates (35µg/lane). This demonstrates the CNOT4 antibody detected the CNOT4 protein (arrow).



CNOT4 Antibody (Cat. #AM1956b) western blot analysis in mouse heart tissue lysates (35µg/lane). This demonstrates the CNOT4 antibody detected the CNOT4 protein (arrow).

Anti-CNOT4 Antibody at 1:1000 dilution + mouse heart lysate Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 63510 Da Blocking/Dilution buffer: 5% NFDM/TBST.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.