10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# CNOT4 Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM1956b

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | O95628 |
| **Other Accession** | NP_037448.2, NP_001177776.1 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Bovine, Canine, Rabbit, Chicken |
| **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: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.

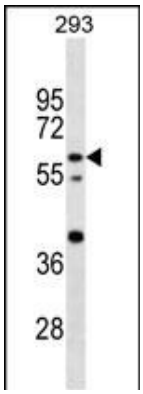
## Background

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.

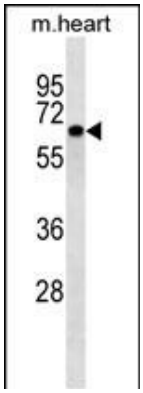
## References

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

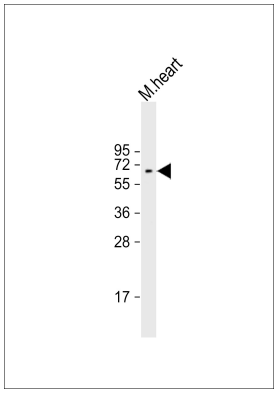



CNOT4 Antibody (Cat. #AM1956b) western blot analysis in 293 cell line lysates (35µg/lane).This demonstrates the CNOT4 antibody detected the CNOT4 protein (arrow).




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'.