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CNOT4 Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM1956b

Product Information

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

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

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.

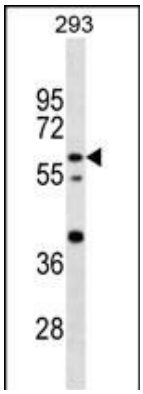
Background

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.

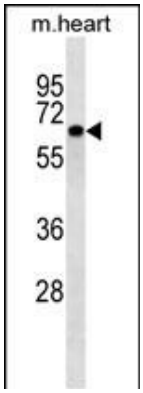
References

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

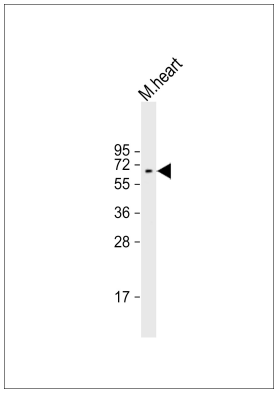


CNOT4 Antibody (Cat. #AM1956b) western blot analysis in 293 cell line lysates (35µg/lane).This demonstrates the CNOT4 antibody detected the CNOT4 protein (arrow).



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'.