

CNOT2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14239c

Product Information

Application	WB, E
Primary Accession	Q9NZN8
Other Accession	Q8C5L3 , NP_055330.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34266
Calculated MW	59738
Antigen Region	272-301

Additional Information

Gene ID	4848
Other Names	CCR4-NOT transcription complex subunit 2, CCR4-associated factor 2, CNOT2, CDC36, NOT2
Target/Specificity	This CNOT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 272-301 amino acids from the Central region of human CNOT2.
Dilution	WB~~1:1000 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	CNOT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CNOT2
Synonyms	CDC36, NOT2

Function	Component of the CCR4-NOT complex which is one of the major cellular mRNA deadenylases and is linked to various cellular processes including bulk mRNA degradation, miRNA-mediated repression, translational repression during translational initiation and general transcription regulation. Additional complex functions may be a consequence of its influence on mRNA expression. Required for the CCR4- NOT complex structural integrity. Can repress transcription and may link the CCR4-NOT complex to transcriptional regulation; the repressive function may specifically involve the N-CoR repressor complex containing HDAC3, NCOR1 and NCOR2. Involved in the maintenance of embryonic stem (ES) cell identity.
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Ubiquitous. Highly expressed in brain, heart, thymus, spleen, kidney, liver, small intestine, placenta, lung and peripheral blood leukocytes.

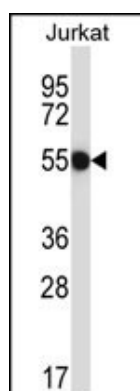
Background

This gene encodes a subunit of the multi-component CCR4-NOT complex. The CCR4-NOT complex regulates mRNA synthesis and degradation and is also thought to be involved in mRNA splicing, transport and localization. The encoded protein interacts with histone deacetylases and functions as a repressor of polymerase II transcription. Alternatively spliced transcript variants have been observed for this gene.

References

Lau, N.C., et al. Biochem. J. 422(3):443-453(2009)
Miyasaka, T., et al. Cancer Sci. 99(4):755-761(2008)
Morita, M., et al. Mol. Cell. Biol. 27(13):4980-4990(2007)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)
Matsuoka, S., et al. Science 316(5828):1160-1166(2007)

Images



CNOT2 Antibody (Center) (Cat. #AP14239c) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the CNOT2 antibody detected the CNOT2 protein (arrow).

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