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DNAJC2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9885c

Product Information

Application	WB, E
Primary Accession	Q99543
Other Accession	Q4R8H2, Q1RMH9
Reactivity	Human, Mouse
Predicted	Bovine, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24170
Calculated MW	71996
Antigen Region	226-255

Additional Information

Gene ID	27000
Other Names	DnaJ homolog subfamily C member 2, M-phase phosphoprotein 11, Zuotin-related factor 1, DnaJ homolog subfamily C member 2, N-terminally processed, DNAJC2, MPHOSPH11, MPP11, ZRF1
Target/Specificity	This DNAJC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 226-255 amino acids from the Central region of human DNAJC2.
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	DNAJC2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAJC2
Synonyms	MPHOSPH11, MPP11, ZRF1

Function	Acts both as a chaperone in the cytosol and as a chromatin regulator in the nucleus. When cytosolic, acts as a molecular chaperone: component of the ribosome-associated complex (RAC), a complex involved in folding or maintaining nascent polypeptides in a folding-competent state. In the RAC complex, stimulates the ATPase activity of the ribosome-associated pool of Hsp70-type chaperones HSPA14 that bind to the nascent polypeptide chain. When nuclear, mediates the switching from polycomb-repressed genes to an active state: specifically recruited at histone H2A ubiquitinated at 'Lys-119' (H2AK119ub), and promotes the displacement of the polycomb PRC1 complex from chromatin, thereby facilitating transcription activation.
Cellular Location	Nucleus. Cytoplasm, cytosol
Tissue Location	Widely expressed..

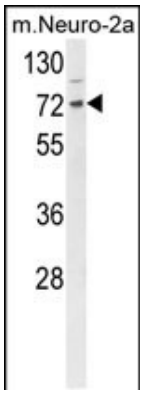
Background

This gene is a member of the M-phase phosphoprotein (MPP) family. The gene encodes a phosphoprotein with a J domain and a Myb DNA-binding domain which localizes to both the nucleus and the cytosol. The protein is capable of forming a heterodimeric complex that associates with ribosomes, acting as a molecular chaperone for nascent polypeptide chains as they exit the ribosome. This protein was identified as a leukemia-associated antigen and expression of the gene is upregulated in leukemic blasts. Also, chromosomal aberrations involving this gene are associated with primary head and neck squamous cell tumors. This gene has a pseudogene on chromosome 6.

References

Hatzold, J., et al. PLoS Biol. 6 (4), E84 (2008) :
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Otto, H., et al. Proc. Natl. Acad. Sci. U.S.A. 102(29):10064-10069(2005)

Images



Western blot analysis of DNAJC2 Antibody (Center) (Cat. #AP9885c) in mouse Neuro-2a cell line lysates (35ug/lane). DNAJC2 (arrow) was detected using the purified Pab.