

DNAJB9 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17914A

Product Information

Application	WB, E
Primary Accession	Q9UBS3
Other Accession	P97554 , Q9QYI6 , NP_036460.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33287
Calculated MW	25518
Antigen Region	40-69

Additional Information

Gene ID	4189
Other Names	DnaJ homolog subfamily B member 9, Endoplasmic reticulum DNA J domain-containing protein 4, ER-resident protein ERdj4, ERdj4, Microvascular endothelial differentiation gene 1 protein, Mdg-1, DNAJB9, MDG1
Target/Specificity	This DNAJB9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 40-69 amino acids from the N-terminal region of human DNAJB9.
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	DNAJB9 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DNAJB9
Synonyms	MDG1 {ECO:0000303 Ref.1}

Function	Co-chaperone for Hsp70 protein HSPA5/BiP that acts as a key repressor of the ERN1/IRE1-mediated unfolded protein response (UPR) (By similarity). J domain-containing co-chaperones stimulate the ATPase activity of Hsp70 proteins and are required for efficient substrate recognition by Hsp70 proteins (PubMed: 18400946). In the unstressed endoplasmic reticulum, interacts with the luminal region of ERN1/IRE1 and selectively recruits HSPA5/BiP: HSPA5/BiP disrupts the dimerization of the active ERN1/IRE1 luminal region, thereby inactivating ERN1/IRE1 (By similarity). Also involved in endoplasmic reticulum-associated degradation (ERAD) of misfolded proteins. Required for survival of B- cell progenitors and normal antibody production (By similarity).
Cellular Location	Endoplasmic reticulum lumen {ECO:0000250 UniProtKB:Q9QYI6}
Tissue Location	Widely expressed. Expressed at highest level in the liver, placenta and kidney (PubMed:11836248)

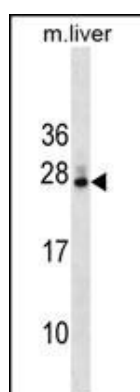
Background

This gene is a member of the J protein family. J proteins function in many cellular processes by regulating the ATPase activity of 70 kDa heat shock proteins. This gene is a member of the type 2 subgroup of DnaJ proteins. The encoded protein is localized to the endoplasmic reticulum. This protein is induced by endoplasmic reticulum stress and plays a role in protecting stressed cells from apoptosis.

References

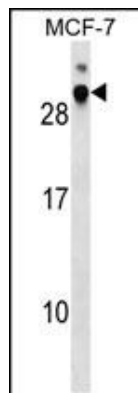
Zhang, H.M., et al. J. Virol. 84(17):8446-8459(2010)
Lenna, S., et al. J. Immunol. 184(9):4654-4661(2010)
McLaughlin, M., et al. J. Biol. Chem. 285(10):6960-6969(2010)
Wang, M., et al. J. Biol. Chem. 284(48):33377-33383(2009)
Colombo, F., et al. Int. J. Cancer 124(9):2179-2185(2009)

Images



DNAJB9 Antibody (N-term) (Cat. #AP17914a) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the DNAJB9 antibody detected the DNAJB9 protein (arrow).

DNAJB9 Antibody (N-term) (Cat. #AP17914a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the DNAJB9 antibody detected the DNAJB9 protein (arrow).



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