

**DNAJB9 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17914A**

**Specification**

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**DNAJB9 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q9UBS3</a>
Other Accession	<a href="#">P97554</a> , <a href="#">Q9QYI6</a> , <a href="#">NP_036460.1</a> , <a href="#">G3H0N9</a>
Reactivity	Human, Mouse
Predicted	Hamster, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	25518
Antigen Region	40-69

**DNAJB9 Antibody (N-term) - 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

**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.

**DNAJB9 Antibody (N-term) - 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**

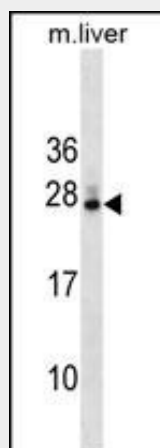
Widely expressed. Expressed at highest level in the liver, placenta and kidney (PubMed:11836248)

**DNAJB9 Antibody (N-term) - Protocols**

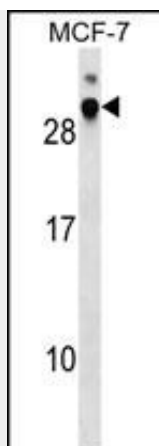
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DNAJB9 Antibody (N-term) - 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).

#### **DNAJB9 Antibody (N-term) - 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.

#### **DNAJB9 Antibody (N-term) - 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)