

**MDG1 / DNAJB9 Antibody (C-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2398a****Specification**

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**MDG1 / DNAJB9 Antibody (C-Term) - Product Information**

Application	IHC
Primary Accession	<a href="#">Q9UBS3</a>
Other Accession	<a href="#">NP_036460.1</a> , <a href="#">4189</a> , <a href="#">27362 (mouse)</a> , <a href="#">24908 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	25518

**MDG1 / DNAJB9 Antibody (C-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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MDG1 / DNAJB9 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MDG1 / DNAJB9 Antibody (C-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:<a href="http://www.uniprot.org/citations/18400946" target="\_blank">18400946</a>). 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}

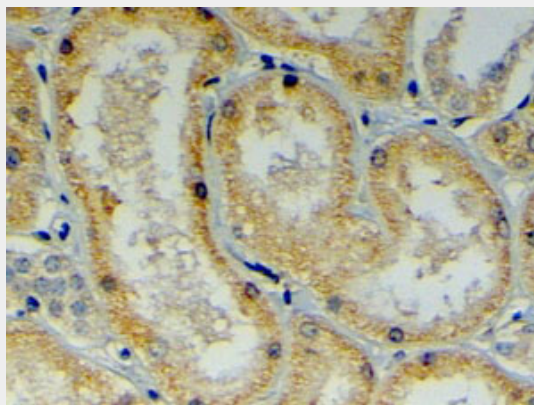
**Tissue Location**

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

**MDG1 / DNAJB9 Antibody (C-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](#)

**MDG1 / DNAJB9 Antibody (C-Term) - Images**

AF2398a (4 µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

**MDG1 / DNAJB9 Antibody (C-Term) - References**

Assignment of the microvascular endothelial differentiation gene 1 (MDG1) to human chromosome band 14q24.2-->q24.3 by fluorescence in situ hybridization. Prols F, Liehr T, Rinke R, Rautenstrauss B. Cytogenet Cell Genet. 1997;79(1-2):149-50. No abstract available. PMID: 9533036