

## Datasheet for ABIN7539341 **DNAJB9 Protein**



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### Overview

Quantity:	20 µg
Target:	DNAJB9
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

### Product Details

Purpose:	Mdg-1
Sequence:	MKHHHHHSA GLEVLFGQPM ASKSYDTLG VPKSASERQI KKAFHKLAMK YHPDKNKSPD AEAKFREIAE AYETLSDANR RKEYDTLGHS AFTSGKGQRG SGSSFEQSFN FNFDDLKDF GFFGQNQNTG SKKRFENHFQ TRQDGGSSRQ RHHFQEFSG GGLFDDMFED MEKMFSFSGF DSTNQHTVQT ENRFHGSSKH CRTVTQRRGN MVTTYTDCSG Q
Characteristics:	Length (aa):221
Purity:	> 95 % by SDS-PAGE

### Target Details

Target:	DNAJB9
Alternative Name:	Mdg-1 ( <a href="#">DNAJB9 Products</a> )
Background:	Microvascular endothelial differentiation gene 1 protein, DnaJ homolog subfamily B member 9, ERdj4, Angiogenesis research has focused on receptors and ligands mediating endothelial cell proliferation and migration. Little is known about the molecular mechanisms that are involved

## Target Details

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in converting endothelial cells from a proliferative to a differentiated state. Microvascular differentiation gene 1 (Mdg1) has been isolated from differentiating microvascular endothelial cells that had been cultured in collagen type I gels (3D culture). In adult human tissue Mdg1 is expressed in endothelial and epithelial cells. Sequence analysis of the full-length cDNA revealed that the N-terminal region of the putative Mdg1-protein exhibits a high sequence similarity to the J-domain of Hsp40 chaperones. It was shown that this region functions as a bona fide J-domain as it can replace the J-domain of Escherichia coli DnaJ-protein. Mdg1 is also upregulated in primary endothelial and mesangial cells when subjected to various stress stimuli. GFP-Mdg1 fusion constructs showed the Mdg1-protein to be localized within the cytoplasm under control conditions. Stress induces the translocation of Mdg1 into the nucleus, where it accumulates in nucleoli. Costaining with Hdj1, Hdj2, Hsp70, and Hsc70 revealed that Mdg1 colocalizes with Hsp70 and Hdj1 in control and stressed HeLa cells. These data suggest that Mdg1 is involved in the control of cell cycle arrest taking place during terminal cell differentiation and under stress conditions.

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Molecular Weight:	25.3 kDa
Gene ID:	4189
NCBI Accession:	<a href="#">NM_012328</a> , <a href="#">NP_036460</a>
UniProt:	<a href="#">Q9UBS3</a>
Pathways:	<a href="#">ER-Nucleus Signaling</a>

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## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized