

DNAJB9 Rabbit pAb

Catalog # AP97882

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UBS3
Other Accession	Q9UBS3
Reactivity	Mouse
Predicted	Rat, Pig, Chimpanzee, Human, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25518
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DNAJB9
Epitope Specificity	24-120/223
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 J domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Dec 2010]

Additional Information

Gene ID	4189
Other Names	ERdj4; MDG-1; MDG1; MST049; MSTP049; CK820_G0011897; mDj7; DNJB9_HUMAN; DNAJB9; Endoplasmic reticulum DNA J domain-containing protein 4 (ER-resident protein ERdj4 ERdj4); Microvascular endothelial differentiation gene 1 protein (Mdg-1); DNJB9_MOUSE; DNJB9_RAT; DnaJ heat shock protein family (Hsp40) member B9; DnaJ (Hsp40) homolog, subfamily B, member 9
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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)

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