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DNAJB9 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17914a

Specification

DNAJB9 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9UBS3

DNAJB9 Antibody (N-term) Blocking Peptide - 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
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DNAJB9 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

DNAJB9 Antibody (N-term) Blocking Peptide - Images

DNAJB9 Antibody (N-term) Blocking Peptide - Background

This gene is a member of the J protein family. J proteinsfunction in many cellular processes by regulating the ATPaseactivity of 70 kDa heat shock proteins. This gene is a member ofthe type 2 subgroup of DnaJ proteins. The encoded protein islocalized to the endoplasmic reticulum. This protein is induced byendoplasmic reticulum stress and plays a role in protectingstressed cells from apoptosis.

DNAJB9 Antibody (N-term) Blocking Peptide - 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)