

DNAJB9 Antibody / DnaJ homolog subfamily B member 9 Antibody (FY13627)

Catalog No.	Formulation	Size
FY13627	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q9UBS3
Applications	Western Blot : 0.5-1ug/ml ELISA : 0.1-0.5 ug/ml
Limitations	The DNAJB9 Antibody / DnaJ homolog subfamily B member 9 Antibody is available for research use only.

DNAJB9 Antibody by WB in human K562 cells. Western blot analysis using DnaJ homolog subfamily B member 9 Antibody detects a prominent immunoreactive band consistent with the expected molecular weight of approximately 26 kDa. Lane 1 contains human K562 whole-cell lysate. Reduced samples containing 30 ug total protein per lane were resolved by 12% SDS-PAGE and transferred to nitrocellulose. The membrane was blocked with 5% nonfat milk, incubated with 0.5 ug/mL primary antibody overnight at 4oC, and probed with an HRP-conjugated secondary antibody. Signal was visualized by chemiluminescence.

Description

DNAJB9 Antibody / DnaJ homolog subfamily B member 9 Antibody targets an endoplasmic reticulum (ER) co-chaperone involved in protein folding and the response to disturbances in ER homeostasis. DNAJB9, also called ERdj4, belongs to the Hsp40/DnaJ family and contains a J domain that helps regulate the ATPase cycle of its Hsp70 partner, the ER chaperone BiP. By cooperating with BiP, DNAJB9 participates in the handling of proteins that have not achieved their correct conformations within the secretory pathway.

The ER must fold proteins destined for secretion, membranes, and several intracellular compartments. Misfolded proteins

expose regions that are normally buried, creating a risk of inappropriate aggregation. ER-associated chaperones bind such intermediates and promote productive folding or direct persistently defective proteins toward quality-control pathways. DNAJB9 is associated with ER-associated degradation, a process in which selected misfolded substrates are ultimately transported out of the ER and destroyed by the proteasome. Its interaction with BiP links substrate recognition to chaperone-mediated quality control.

DNAJB9 expression increases during the unfolded protein response, particularly through transcriptional programs activated when misfolded proteins accumulate. This induction helps expand the ER's capacity to manage proteotoxic stress. However, sustained ER stress can also affect translation, metabolism, and cell survival, so the consequences of DNAJB9 regulation depend on the duration and severity of the underlying disturbance.

DNAJB9 has additional significance in fibrillary glomerulonephritis, a kidney disorder characterized by distinctive fibrillar deposits. Strong DNAJB9 accumulation is a characteristic molecular finding in this disease, although the mechanisms connecting the protein to deposit formation remain under investigation. Its prominence in this setting has renewed interest in functions beyond conventional ER quality control.

NSJ Bioreagents offers this DNAJB9 Antibody to help examine how ER chaperone networks respond to misfolded proteins and how DNAJB9 biology intersects with abnormal protein deposition. The protein provides a useful point of connection between intracellular proteostasis, adaptive stress signaling, and disease-associated changes in protein organization.

Explore related research targets in our [Cell Biology Antibodies](#) collection.

Application Notes

Optimal working dilutions for the DNAJB9 Antibody / DnaJ homolog subfamily B member 9 Antibody should be established experimentally for each assay.

Immunogen

The DNAJB9 Antibody was generated using e. coli-derived human DNAJB9 recombinant protein (amino acids K25-H197).

Storage

The DNAJB9 Antibody is stable for up to one month at 4°C after reconstitution. For longer-term storage, aliquot and store at -20°C for up to six months. Do not repeatedly freeze and thaw.

Alternate Names

DNAJB9 antibody, DnaJ homolog subfamily B member 9 antibody, DnaJ heat shock protein family (Hsp40) member B9 antibody, ERdj4 antibody, Mdg 1 antibody, MDG1 antibody, MST049 antibody, MSTP049 antibody