

DNAJB11 Antibody / DnaJ homolog subfamily B member 11 Antibody (FY13577)

Catalog No.	Formulation	Size
FY13577	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Species Reactivity	Human, Mouse, Rat
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	Q9UBS4
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml ELISA : 0.1-0.5 ug/ml
Limitations	For research use only, this DNAJB11 Antibody / DnaJ homolog subfamily B member 11 Antibody is not intended for diagnostic or therapeutic use.

DNAJB11 Antibody by IHC in human liver carcinoma. Immunohistochemistry of paraffin-embedded human liver carcinoma using DnaJ homolog subfamily B member 11 Antibody shows brown granular cytoplasmic staining in malignant epithelial cells distributed throughout the tumor tissue. Nuclei are counterstained blue with hematoxylin. Sections underwent heat-mediated antigen retrieval in EDTA buffer at pH 8.0, blocking with 10% goat serum, and primary antibody incubation at 2 ug/mL overnight at 4oC. Detection used a peroxidase-conjugated secondary antibody and DAB chromogen.

DNAJB11 Antibody by WB in human cell lines and rodent liver. Western blot analysis using DnaJ homolog subfamily B member 11 Antibody detects a band near 41 kDa in U251 (lane 1), Caco-2 (lane 2), A431 (lane 3), HepG2 (lane 4), rat liver (lane 5), rat RH35 (lane 6), mouse liver (lane 7), and mouse HEPA1-6 (lane 8), compared with a calculated molecular weight of approximately 41 kDa. Reduced lysates containing 30 ug total protein per lane were resolved by 10% SDS-PAGE and transferred to nitrocellulose. The membrane was blocked with 5% nonfat milk, followed by primary antibody incubation at 0.5 ug/mL overnight at 4oC. Bound antibody was detected using an HRP-conjugated secondary antibody and chemiluminescent substrate.

Description

DNAJB11 Antibody / DnaJ homolog subfamily B member 11 Antibody detects DNAJB11, an endoplasmic reticulum-associated Hsp40 co-chaperone, also known as ERdj3. It belongs to the DnaJ family of proteins that cooperate with Hsp70 chaperones to assist protein folding. DNAJB11 operates within the secretory protein quality-control system, where newly synthesized polypeptides must attain appropriate conformations before leaving the endoplasmic reticulum. Its J domain stimulates the ATPase activity of the ER Hsp70 chaperone BiP, also called HSPA5 or GRP78. This interaction helps regulate the binding and release of client proteins during their maturation.

The endoplasmic reticulum contains specialized machinery for folding secreted and membrane-associated proteins, forming disulfide bonds, and recognizing improperly folded molecules. DNAJB11 participates in this environment by engaging unfolded substrates and supporting their handling by BiP. The protein has also been described as a soluble ER luminal co-chaperone, rather than a component of the mitochondrial DnaJ system. Its activities intersect with the unfolded protein response, a network that adjusts ER protein-folding capacity when the burden of misfolded proteins increases. The outcome of these responses depends on the severity and duration of ER stress. The DnaJ homolog subfamily B member 11 Antibody designation refers to this same protein target.

Pathogenic variants in DNAJB11 have been associated with a form of autosomal dominant tubulointerstitial kidney disease featuring cystic and fibrotic changes. This clinical association underscores the importance of ER proteostasis for long-lived epithelial cells. DNAJB11-related disease differs from classical polycystic kidney disease caused by defects in primary ciliary signaling, even when some clinical features overlap. Research on DNAJB11 therefore connects molecular chaperone biology with the maintenance of organelle function and tissue integrity. NSJ Bioreagents includes DNAJB11 among proteins involved in ER folding and quality control. A DNAJB11 Antibody provides a means of examining the molecular functions associated with DNAJB11.

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Application Notes

Optimal working dilutions for the DNAJB11 Antibody / DnaJ homolog subfamily B member 11 Antibody should be established experimentally for each assay.

Immunogen

The DNAJB11 Antibody was generated using e. coli-derived human DNAJB11 recombinant protein (amino acids T120-Y358).

Storage

After reconstitution, keep the DNAJB11 Antibody at 4°C for up to one month. Alternatively, store aliquots at -20°C for up to six months. Avoid multiple freezing and thawing cycles.

Alternate Names

DNAJB11 antibody, DnaJ homolog subfamily B member 11 antibody, DnaJ heat shock protein family (Hsp40) member B11 antibody, ABBP 2 antibody, ABBP2 antibody, APOBEC1 binding protein 2 antibody, DJ9 antibody, DnaJ protein homolog 9 antibody, EDJ antibody, ER associated DNAJ antibody, ER associated dnaJ protein 3 antibody, ERdj3 antibody

