

DNAJB4 Antibody / DnaJ homolog subfamily B member 4 Antibody (FY13587)

Catalog No.	Formulation	Size
FY13587	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	Q9UDY4
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5 ug/ml
Limitations	This DNAJB4 Antibody / DnaJ homolog subfamily B member 4 Antibody is provided for laboratory research use only.

DNAJB4 Antibody by FACS in A549 cells. Flow cytometry analysis using DnaJ homolog subfamily B member 4 Antibody shows a rightward shift of the antibody-stained population (blue) relative to the rabbit IgG isotype control (green) and unstained blank (red). A549 cells were fixed with 4% paraformaldehyde. Primary antibody was applied at 1 ug per 1×10^6 cells for 30 minutes at 20°C, followed by a fluorescent anti-rabbit IgG secondary antibody. The histogram demonstrates detectable antibody-associated fluorescence under these assay conditions.

DNAJB4 Antibody by WB in human cell lines and rodent brain. Western blot analysis using DnaJ homolog subfamily B member 4 Antibody detects a prominent band near 38 kDa, compared with the calculated molecular weight of approximately 38 kDa. Lanes 1-4 contain HeLa, K562, A549 and U2OS whole-cell lysates, respectively; lanes 5 and 6 contain rat and mouse brain tissue lysates. Reduced lysates containing 30 ug total protein per lane were separated by 10% SDS-PAGE and transferred to nitrocellulose. After blocking with 5% nonfat milk, the membrane was incubated with primary antibody at 0.5 ug/mL overnight at 4°C. Detection employed an HRP-conjugated anti-rabbit secondary antibody and chemiluminescent substrate.

Description

DNAJB4 Antibody / DnaJ homolog subfamily B member 4 Antibody detects DNAJB4, also known as HLJ1, a member of the Hsp40 co-chaperone family. DNAJB4 contains a conserved J domain that enables functional cooperation with Hsp70 proteins during protein folding and quality control. Hsp40 proteins help recruit client polypeptides and stimulate the ATPase cycle of Hsp70 chaperones, supporting the recognition and handling of proteins that have not reached their native conformations. DNAJB4 is distinct from other DNAJ family members in its regulatory features and cellular functions.

Protein homeostasis requires coordinated control of folding, trafficking, and degradation. When proteins misfold or become damaged, chaperone networks can promote refolding or direct them toward clearance pathways. DNAJB4 participates in this broader proteostasis environment and has been investigated for its influence on cytoskeletal and signaling proteins. Its activity depends on interaction with chaperone partners rather than an independent catalytic protein-folding mechanism. The balance between synthesis, folding, and degradation is particularly important in cells exposed to environmental or metabolic stress. The DnaJ homolog subfamily B member 4 Antibody name refers to this same gene product.

DNAJB4 has been studied in cancer biology, where altered expression has been associated with tumor progression and metastatic behavior in certain experimental systems. Reports have linked HLJ1 to changes in cell migration, invasion, and transcriptional programs, but such associations should be interpreted in their specific tumor context. The protein has also been examined as a stress-responsive co-chaperone. Understanding DNAJB4 therefore involves both its molecular partnership with Hsp70 and its effects on the stability of cellular proteins. NSJ Bioreagents includes DNAJB4 among proteins involved in chaperone-mediated regulation. A DNAJB4 Antibody provides a way to investigate the molecular biology associated with this protein.

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

Application Notes

Optimal working dilutions for the DNAJB4 Antibody / DnaJ homolog subfamily B member 4 Antibody should be established experimentally for each assay.

Immunogen

The DNAJB4 Antibody was generated using e. coli-derived human DNAJB4 recombinant protein (amino acids R120-Q306).

Storage

Store the reconstituted DNAJB4 Antibody at 4°C for up to one month. For long-term storage, divide into aliquots and keep at -20°C for up to six months. Avoid repeated freeze-thaw cycles.

Alternate Names

DNAJB4 antibody, DnaJ homolog subfamily B member 4 antibody, DnaJ heat shock protein family (Hsp40) member B4 antibody, Human liver DnaJ like protein antibody, HSP40 homolog antibody, HLJ1 antibody, Heat shock protein 40 homolog antibody, DNAJW antibody

