

DNAJB5 Antibody / DnaJ homolog subfamily B member 5 Antibody (FY13663)

Catalog No.	Formulation	Size
FY13663	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	O75953
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5 ug/ml
Limitations	The DNAJB5 Antibody / DnaJ homolog subfamily B member 5 Antibody is available for research use only.

DNAJB5 Antibody by FCM in Fixed SH-SY5Y Cells. Flow cytometry analysis of fixed, permeabilized SH-SY5Y cells using DNAJB5 Antibody shows a blue test histogram shifted toward higher fluorescence relative to the green isotype control; the red histogram is the blank. The assay detects intracellular antibody labeling rather than live-cell surface staining.

DNAJB5 Antibody by IHC in Human Colon Cancer Tissue. Immunohistochemistry of paraffin-embedded human colon cancer tissue using DNAJB5 Antibody shows widespread brown DAB immunoreactivity in tumor cells, including conspicuous nuclear-associated staining. Nuclei are counterstained blue with hematoxylin and staining intensity varies across tumor glands.

DNAJB5 Antibody by IHC in Mouse Brain Tissue. Immunohistochemistry of paraffin-embedded mouse brain tissue using DNAJB5 Antibody shows scattered dark nuclear-associated staining against a relatively pale neuropil background. Blue hematoxylin counterstaining outlines other nuclei; labeling is not uniform across the section.

DNAJB5 Antibody by IHC in Rat Brain Tissue. Immunohistochemistry of paraffin-embedded rat brain tissue using DNAJB5 Antibody shows variable brown DAB immunoreactivity in cells distributed throughout the neuropil. Hematoxylin counterstaining highlights numerous nuclei and areas of relatively weak background staining.

DNAJB5 Antibody by IHC in Rat Brain Tissue. Immunohistochemistry analysis of DNAJB5 expression in a paraffin-embedded rat brain section using DNAJB5 Antibody. Brown DAB immunoreactivity varies across the layered brain tissue, with hematoxylin highlighting densely distributed nuclei. Heat-mediated antigen retrieval was performed in EDTA buffer (pH 8.0), followed by blocking with 10% goat serum. The section was incubated with primary antibody at 2 ug/ml overnight at 4°C and detected with a peroxidase-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen. The tissue identification is confirmed in the supplier datasheet for A13716-1.

DNAJB5 Antibody by IF in U2OS Cells. Immunofluorescence microscopy of U2OS cells labeled with DNAJB5 Antibody shows predominantly cytoplasmic red fluorescence with a granular distribution around green counterstained nuclei. The staining is present across multiple cells and does not independently establish an organelle-specific location.

DNAJB5 Antibody by WB in Human and Rodent Lysates. Western blot analysis using DNAJB5 Antibody demonstrates a principal band near 38-40 kDa across eight lysates. Lanes 1-4 represent SH-SY5Y, U251, Jurkat, and PC-3 human cell lines; lanes 5-6 represent rat brain and C6 cells; lanes 7-8 represent mouse brain and Neuro-2a cells. The predominant band is near the expected size of DNAJB5, with some variation in intensity between lanes. Additional lower-migrating bands are apparent in the mouse samples, but their molecular identities cannot be determined from the image alone. The results show antibody reactivity in the examined human and rodent preparations.

Description

DNAJB5 Antibody / DnaJ homolog subfamily B member 5 Antibody targets DNAJB5, a member of the Hsp40/DnaJ protein family that cooperates with Hsp70 chaperone systems. Protein folding in the cytoplasm depends on coordinated actions of molecular chaperones that recognize exposed hydrophobic regions, limit inappropriate aggregation, and promote productive folding or quality-control decisions. DnaJ-family proteins are important regulators of these processes because their conserved J domains stimulate ATP hydrolysis by Hsp70, changing how Hsp70 interacts with client polypeptides.

DNAJB5 belongs to the type B group of J-domain proteins, whose members share a general domain organization but differ in client recognition, expression, and interactions with other proteostasis factors. Hsp70 cochaperones do not simply increase folding activity indiscriminately; they can influence whether a substrate is retained in a folding cycle, transferred to another chaperone system, or directed toward clearance. These decisions depend on the biochemical properties of the substrate and the cellular environment. DNAJB5 is less extensively characterized than several other DNAJB proteins, so

its preferred clients and the full range of its regulatory partners remain incompletely established.

Chaperone networks become particularly important during heat stress, oxidative damage, and other conditions that destabilize protein structure. The balance between refolding and disposal helps preserve cellular function and limits the formation of insoluble protein assemblies. Studying individual J-domain proteins can reveal how a broadly shared Hsp70 mechanism is adapted to specific protein populations. NSJ Bioreagents offers this DNAJB5 Antibody to facilitate research on DNAJB5 within the wider network of Hsp70-dependent protein quality control. Clarifying its substrate preferences and cochaperone partnerships may explain how cells distribute folding responsibilities among closely related DNAJB family members.

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

Application Notes

The ideal working dilution for the DNAJB5 Antibody / DnaJ homolog subfamily B member 5 Antibody should be established by the investigator based on assay conditions.

Immunogen

The DNAJB5 Antibody was generated using e. coli-derived human DNAJB5 recombinant protein (amino acids S117-S348).

Storage

The DNAJB5 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

DNAJB5 antibody, DnaJ homolog subfamily B member 5 antibody, DnaJ heat shock protein family (Hsp40) member B5 antibody, KIAA1045 antibody, Hsc40 antibody, Heat shock protein Hsp40-3 antibody, Heat shock protein Hsp40-2 antibody, Heat shock protein Hsp40 3 antibody