Product Name: KD-Validated DNAJA2 Mouse Monoclonal Antibody
Catalog #: KVAb00574
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:200-1:1,000; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 45.7kDa

Antigen Information

Gene Name	DNAJA2
Alternative Names	DNAJA2; DnaJ Heat Shock Protein Family (Hsp40) Member A2; HIRIP4; CPR3; DNAJ; DNJ3; Cell Cycle Progression Restoration Gene 3 Protein; DnaJ (Hsp40) Homolog, Subfamily A, Member 2; DnaJ Homolog Subfamily A Member; Renal Carcinoma Antigen NY-REN-14; Cell Cycle Progression 3 Protein; HIRA Interacting Protein 4; HIRA-Interacting Protein 4; PRO3015; DJA2; RDJ2; Dnj3; DJ3; Dj3
Gene ID	10294.0
SwissProt ID	O60884
Immunogen	Recombinant protein of human DNAJA2

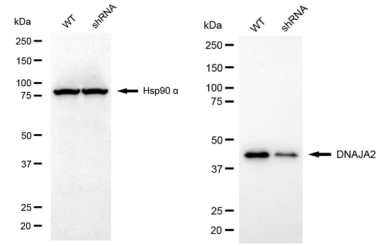
Background

The protein encoded by this gene belongs to the evolutionarily conserved DNAJ/HSP40 family of proteins, which regulate molecular chaperone activity by stimulating ATPase activity. DNAJ proteins may have up to 3 distinct domains: a conserved 70-amino acid J domain, usually at the N terminus; a glycine/phenylalanine (G/F)-rich region; and a cysteine-rich domain containing 4 motifs resembling a zinc finger domain. The product of this gene works as a cochaperone of Hsp70s in protein folding and mitochondrial protein import in vitro. [provided by RefSeq, Jul 2008]

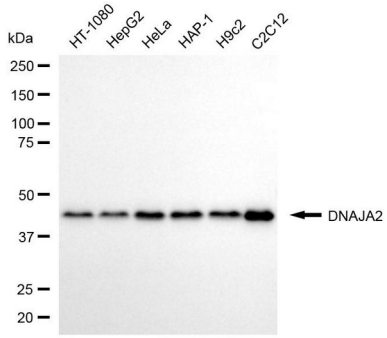
Research Area

Signal Transduction

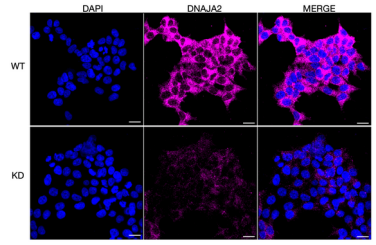
Image Data



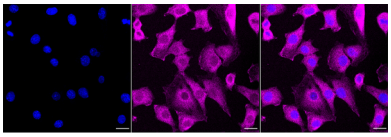
Western blotting analysis using DNAJA2 antibody (KVAb00574). DNAJA2 expression in wild type (WT) and DNAJA2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with DNAJA2 antibody (KVAb00574, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



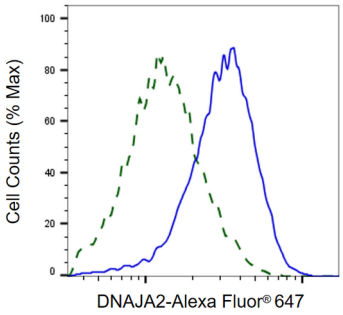
Western blotting analysis using DNAJA2 antibody (KVAb00574). Total cell lysates (10 µg for C2C12 and 30 µg for others) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DNAJA2 antibody (KVAb00574, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



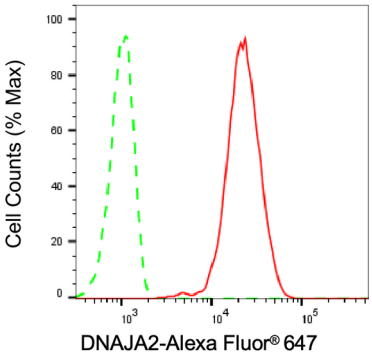
Immunocytochemical staining of HeLa cells using DNAJA2 antibody (KVAb00574, 1:1,000), Top panel: wild-type (WT); Bottom panal: DNAJA2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; DNAJA2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of C2C12 cells with DNAJA2 antibody (KVAb00574, 1:1,000) . Nuclei were stained blue with DAPI; DNAJA2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of DNAJA2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with DNAJA2 antibody (KVAb00574, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of DNAJA2 expression in C2C12 cells using DNAJA2 antibody (KVAb00574, 1:1,000). Green, isotype control; red, DNAJA2.