

Product Name: KD-Validated DNAJA1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01360**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 44.9kDa

Antigen Information

Gene Name	DNAJA1 DNAJA1; DnaJ Heat Shock Protein Family (Hsp40) Member A1; HSPF4; Hdj-2; NEDD7; Dj-2; HSJ2; Neural Precursor Cell Expressed, Developmentally Down-Regulated 7; DnaJ (Hsp40)
Alternative Names	Homolog, Subfamily A, Member 1; DnaJ Homolog Subfamily A Member 1; Heat Shock 40 KDa Protein 4; DnaJ Protein Homolog 2; Heat Shock Protein J2; Human DnaJ Protein 2; HSJ-2; HDJ2; HSDJ; Heat Shock Protein, DNAJ-Like 2; DNAJ2; HDj-2; DjA1
Gene ID	3301.0
SwissProt ID	P31689
Immunogen	A synthesized peptide derived from human DNAJA1

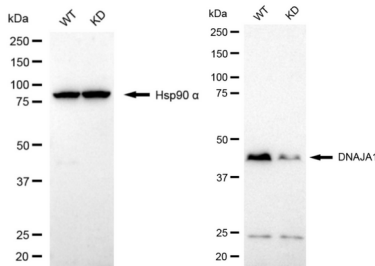
Background

This gene encodes a member of the DnaJ family of proteins, which act as heat shock protein 70 cochaperones. Heat shock proteins facilitate protein folding, trafficking, prevention of aggregation, and proteolytic degradation. Members of this family are characterized by a highly conserved N-terminal J domain, a glycine/phenylalanine-rich region, four CxxCxGxG zinc finger repeats, and a C-terminal substrate-binding domain. The J domain mediates the interaction with heat shock protein 70 to recruit substrates and regulate ATP hydrolysis activity. In humans, this gene has been implicated in positive regulation of virus replication through co-option by the influenza A virus. Several pseudogenes of this gene are found on other chromosomes. [provided by RefSeq, Sep 2015]

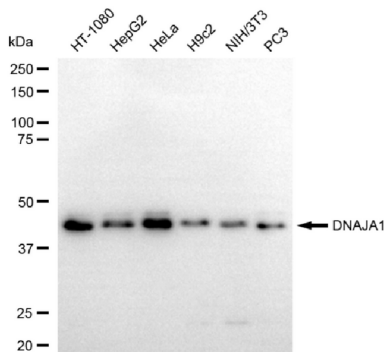
Research Area

Signal Transduction

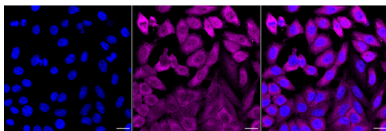
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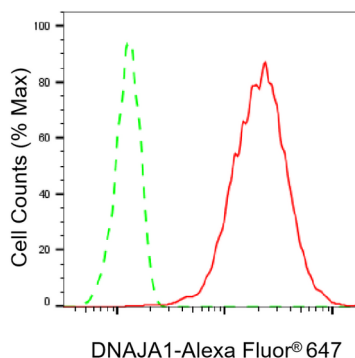
Western blotting analysis using DNAJA1 antibody (KVA01360). DNAJA1 expression in wild-type (WT) and DNAJA1 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with DNAJA1 antibody (KVA01360, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using DNAJA1 antibody (KVA01360). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DNAJA1 antibody (KVA01360, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with DNAJA1 antibody (KVA01360, 1:1,000). Nuclei were stained blue with DAPI; DNAJA1 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.



Flow cytometric analysis of DNAJA1 expression in HepG2 cells using DNAJA1 antibody (KVA01360, 1:2,000). Green, isotype control; red, DNAJA1.

