

## Product datasheet

# Human DNAJA1 knockout HEK-293T cell lysate ab257925

3 Images

### Overview

Product name	Human DNAJA1 knockout HEK-293T cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 11 bp deletion in exon 2 and 1 bp insertion in exon 2.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
Reconstitution notes	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i>

### Notes

**Lysate preparation:** Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

**User storage instructions:** Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines.

**[See here for more information on knockout cell lysates.](#)**

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### Tested applications

**Suitable for:** WB

## Properties

**Storage instructions** Store at -80°C. Please refer to protocols.

Components	1 kit
ab260391 - Human DNAJA1 knockout HEK293T cell lysate	1 x 100µg
ab255553 - Human wild-type HEK293T cell lysate	1 x 100µg

**Cell type** epithelial

**STR Analysis** Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

## Target

**Function** Co-chaperone of Hsc70. Seems to play a role in protein import into mitochondria.

**Sequence similarities** Contains 1 CR-type zinc finger.  
Contains 1 J domain.

**Cellular localization** Membrane.

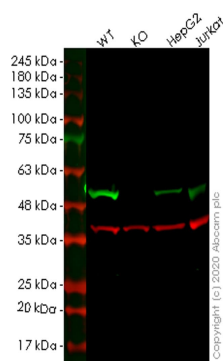
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab257925 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 45 kDa.

## Images



Western blot - Human DNAJA1 knockout HEK293T cell lysate (ab257925)

**Lane 1:** Wild-type HEK293T cell lysate (20 ug)

**Lane 2:** DNAJA1 knockout HEK293T cell lysate (20 ug)

**Lane 3:** HepG2 cell lysate (20 ug)

**Lane 4:** Jurkat cell lysate (20 ug)

**ab126774** was shown to specifically react with DNAJA1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266437** (knockout cell lysate ab257925) was used. Wild-type and DNAJA1 knockout samples were subjected to SDS-PAGE. **ab126774** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

Mut	ACCTTCTCTCCTTCATTTGGG-----ATGGTACTTCAAAGCCAGTTTCCTATAA
WT	ACCTTCTCTCCTTCATTTGGGTTCTTATCAGGATGGTACTTCAAAGCCAGTTTCCTATAA

Sanger Sequencing - Human DNAJA1 knockout HEK293T cell lysate (ab257925)

Allele-1: 11 bp deletion in exon 2

Mut	ACCTTCTCTCCTTCATTTGGGATTTCTTATCAGGATGGTACTTCAAAGCCAGTTTCCTATA
WT	ACCTTCTCTCCTTCATTTGGGTTCTTATCAGGATGGTACTTCAAAGCCAGTTTCCTATA

Sanger Sequencing - Human DNAJA1 knockout HEK293T cell lysate (ab257925)

Allele-2: 1 bp insertion in exon 2

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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