abcam

Product datasheet

Anti-DNAJA1 antibody [EPR7248] ab126774

KO VALIDATED Recombinant RabMAb

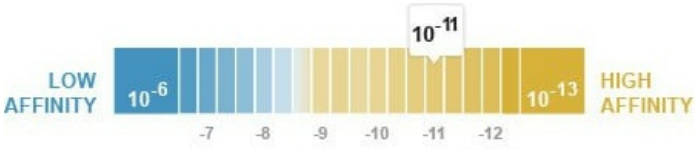
3 References 6 Images

Overview

Product name	Anti-DNAJA1 antibody [EPR7248]
Description	Rabbit monoclonal [EPR7248] to DNAJA1
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB **Unsuitable for:** ICC/IF or IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human DNAJA1 aa 350-450 (C terminal). The exact sequence is proprietary.
Positive control	WB: HEK293T, Jurkat, HepG2, SKBR 3, Jurkat and Raji cell lysates. Flow Cyt (intra): Jurkat cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	$K_D = 4.20 \times 10^{-11}$ M



Learn more about K_D

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR7248
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126774 in the following tested applications.

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

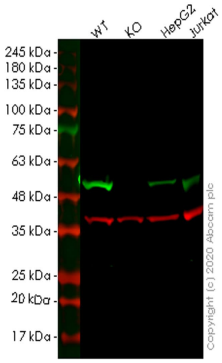
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000 - 1/50000. Detects a band of approximately 46 kDa (predicted molecular weight: 45 kDa).

Application notes Is unsuitable for ICC/IF or IHC-P.

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.

Images



Western blot - Anti-DNAJA1 antibody [EPR7248] (ab126774)

All lanes : Anti-DNAJA1 antibody [EPR7248] (ab126774) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : DNAJA1 knockout HEK293T cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : Jurkat cell lysate

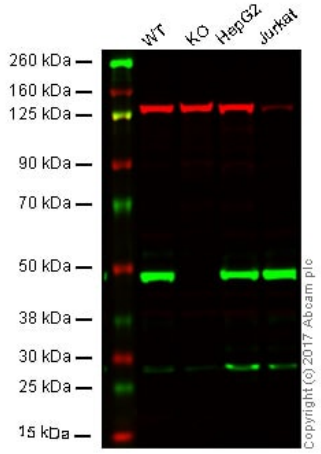
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 45 kDa
Observed band size: 49 kDa

Lanes 1-4: Merged signal (red and green). Green - ab126774 observed at 49 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab126774 Anti-DNAJA1 antibody [EPR7248] 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.

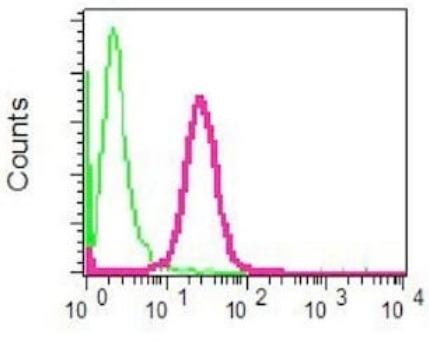


Western blot - Anti-DNAJA1 antibody [EPR7248] (ab126774)

Lane 1: Wild-type DNAJA1 whole cell lysate (20 µg)
Lane 2: DNAJA1 knockout DNAJA1 whole cell lysate (20 µg)
Lane 3: HepG2 whole cell lysate (20 µg)
Lane 4: Jurkat whole cell lysate (20 µg)

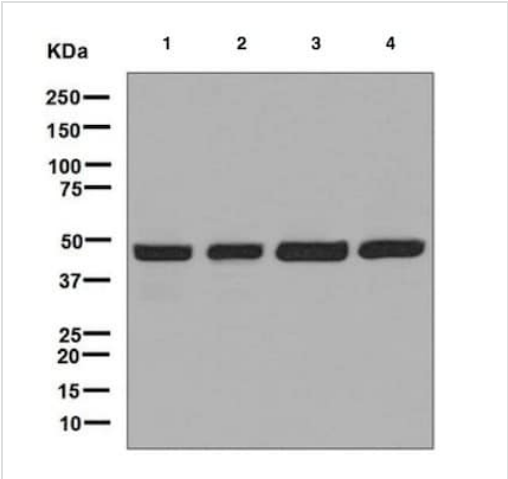
Lanes 1 - 4: Merged signal (red and green). Green - ab126774 observed at 45 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab126774 was shown to recognize DNAJA1 in wild-type HAP1 samples along with additional cross-reactive bands. No band was observed when DNAJA1 knockout samples were examined. Wild-type and DNAJA1 knockout samples were subjected to SDS-PAGE. Ab126774 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1/10,000 dilution and 1/10,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-DNAJA1 antibody [EPR7248] (ab126774)

ab126774 at 1/10 dilution staining DNAJA1 in permeabilized Jurkat cells by intracellular flow cytometry (red). Rabbit IgG negative control (green).



Western blot - Anti-DNAJA1 antibody [EPR7248] (ab126774)

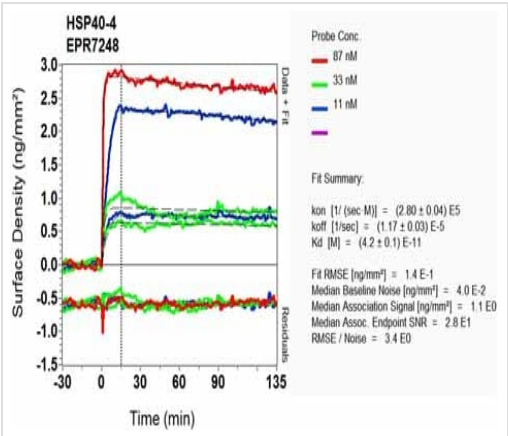
All lanes : Anti-DNAJA1 antibody [EPR7248] (ab126774) at 1/10000 dilution

Lane 1 : HepG2 cell lysate
Lane 2 : SKBR 3 cell lysate
Lane 3 : Jurkat cell lysate
Lane 4 : Raji cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 45 kDa



OI-RD Scanning - Anti-DNAJA1 antibody [EPR7248] (ab126774)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

Anti-DNAJA1 antibody [EPR7248] (ab126774)

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