


Anti-DNAJC3 antibody ab70840

[2 References](#) [3 Images](#)

Overview

Product name	Anti-DNAJC3 antibody
Description	Rabbit polyclonal to DNAJC3
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Chicken 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 100 - 200 of Human DNAJC3. Read Abcam's proprietary immunogen policy (Peptide available as ab72883 .)
Positive control	This antibody gave a positive signal in the following human whole cell lysates: TE 671, Ramos, SK N BE, Hela - Staurosporine Treated (24hr, 500nM), Hela - Hydroxyurea Treated (48hr, 2uM), Jurkat - Staurosporine Treated (24hr, 500nM) and Y79.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

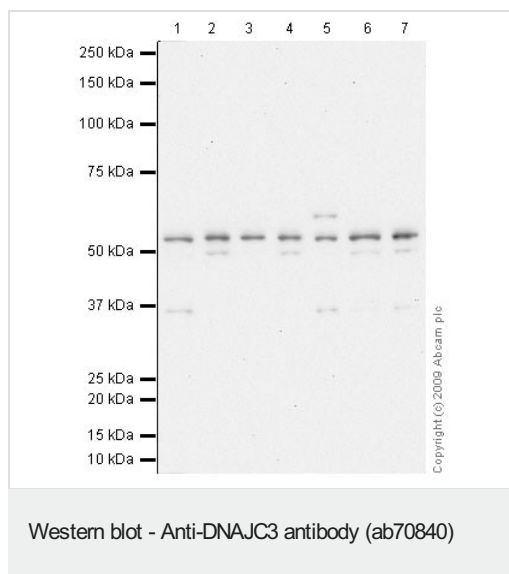
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab70840 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 1 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 54 kDa (predicted molecular weight: 58 kDa).

Target

Function	Involved in the unfolded protein response (UPR) during ER stress. Co-chaperone of HSPA8/HSC70, it stimulates its ATPase activity. May inhibit both the autophosphorylation of EIF2AK2/PKR and the ability of EIF2AK2 to catalyze phosphorylation of the EIF2A. May inhibit EIF2AK3/PERK activity.
Tissue specificity	Widely expressed with high level in the pancreas and testis. Also expressed in cell lines with different levels.
Sequence similarities	Contains 1 J domain. Contains 9 TPR repeats.
Domain	The J domain mediates interaction with HSPA8.
Cellular localization	Endoplasmic reticulum.

Images



All lanes : Anti-DNAJC3 antibody (ab70840) at 1/250 dilution

Lane 1 : TE 671 (Human Rhabdomyosarcoma) Whole Cell Lysate

Lane 2 : Hela Whole Cell Lysate - Staurosporine Treated (24hr, 500nM)

Lane 3 : Ramos (Human Burkitt's lymphoma cell line) Whole Cell Lysate

Lane 4 : Hela Whole Cell Lysate - Hydroxyurea Treated (48hr, 2uM)

Lane 5 : SK N BE (Human neuroblastoma) Whole Cell Lysate

Lane 6 : Jurkat Whole Cell Lysate - Staurosporine Treated (24hr, 500nM)

Lane 7 : Y79 (Human retinoblastoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

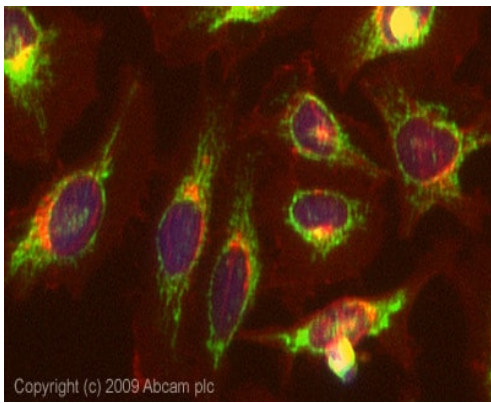
Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

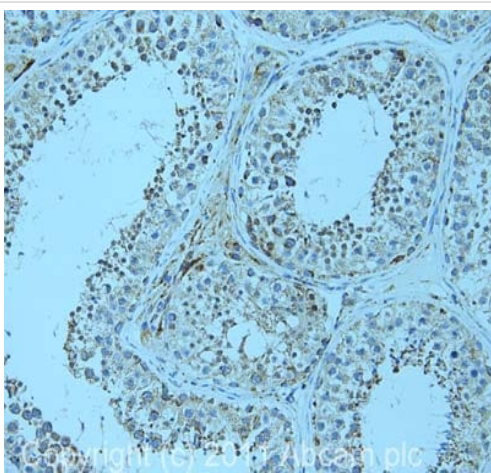
Predicted band size: 58 kDa

Observed band size: 54 kDa



Immunocytochemistry/ Immunofluorescence - Anti-DNAJC3 antibody (ab70840)

ICC/IF image of ab70840 stained HeLa cells. The cells were 100% Methanol fixed (5 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab70840, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 100% Methanol fixed (5 min) Hek293, HepG2, MCF-7 cells at 1µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNAJC3 antibody (ab70840)

IHC image of ab70840 staining in human testis formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab70840, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors