


Anti-eEF1B2 antibody ab37725

KO VALIDATED

3 References 4 Images

Overview

Product name	Anti-eEF1B2 antibody
Description	Rabbit polyclonal to eEF1B2
Host species	Rabbit
Specificity	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rabbit, Cow, Pig 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human eEF1B2.Read Abcam's proprietary immunogen policy(Peptide available as ab37955 .)
Positive control	HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate, Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate, A431 (Human epithelial carcinoma cell line) Whole Cell Lysate, HEK 293 (Human embryonic kidney cell line) Whole Cell Lysate, HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate, MCF-7 (Human breast adenocarcinoma cell line) Whole Cell Lysate and U2OS (Human osteosarcoma cell line) Whole Cell Lysate.
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

pH: 7.40
Preservative: 0.02% Sodium azide
Constituent: PBS

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 ab37725 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
WB		1/250. Detects a band of approximately 30 kDa (predicted molecular weight: 25 kDa).
IHC-P		Use a concentration of 1 µg/ml.
ICC/IF		Use a concentration of 5 µg/ml.

Target**Function**

EF-1-beta and EF-1-delta stimulate the exchange of GDP bound to EF-1-alpha to GTP.

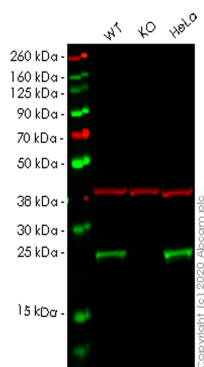
Sequence similarities

Belongs to the EF-1-beta/EF-1-delta family.
Contains 1 GST C-terminal domain.

Post-translational modifications

Phosphorylation affects the GDP/GTP exchange rate.

Images



Western blot - Anti-eEF1B2 antibody (ab37725)

All lanes : Anti-eEF1B2 antibody (ab37725) at 1/500 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : eEF1B2 knockout HEK293T cell lysate

Lane 3 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

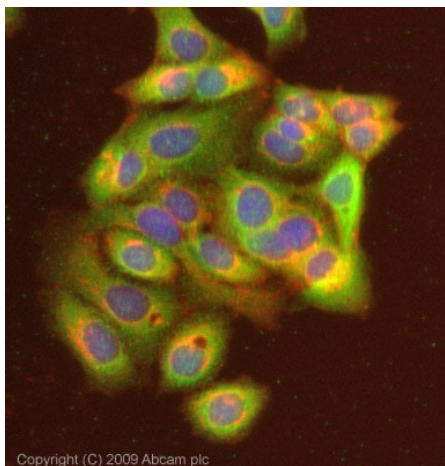
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 25 kDa

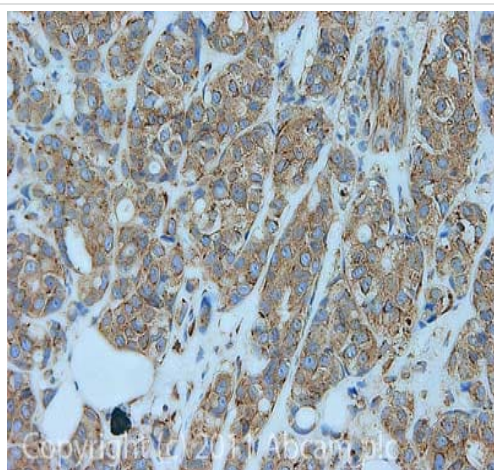
Observed band size: 30 kDa

Lanes 1-3: Merged signal (red and green). Green - ab37725 observed at 30 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

ab37725 Anti-eEF1B2 antibody was shown to specifically react with eEF1B2 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266769](#) (knockout cell lysate [ab257934](#)) was used. Wild-type and eEF1B2 knockout samples were subjected to SDS-PAGE. ab37725 and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) were incubated overnight at 4°C at 1 in 500 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.



Immunocytochemistry/ Immunofluorescence - Anti-eEF1B2 antibody (ab37725)

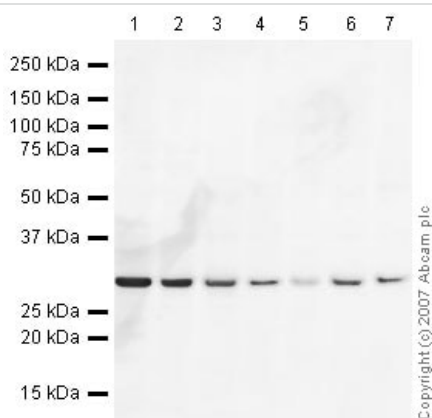


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eEF1B2 antibody (ab37725)

ICC/IF image of ab37725 stained MCF7 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 (ab37725, 5µg/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) HeLa, HepG2 and Hek293 cells at 5µg/ml, and in 4% PFA fixed (10 min) HeLa, Hek293, HepG2 and MCF7 cells at 5µg/ml.

IHC image of ab37725 staining eEF1B2 in Human breast adenocarcinoma 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 ab37725, 1µg/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.



Western blot - Anti-eEF1B2 antibody (ab37725)

All lanes : Anti-eEF1B2 antibody (ab37725) at 1/250 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : Jurkat whole cell lysate ([ab7899](#))

Lane 3 : A-431 whole cell lysate ([ab7909](#))

Lane 4 : HEK-293 whole cell lysate ([ab7902](#))

Lane 5 : Hep G2 whole cell lysate ([ab7900](#))

Lane 6 : MCF-7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lane 7 : U2OS (Human osteosarcoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at
1/15000 dilution

Performed under reducing conditions.

Predicted band size: 25 kDa

Observed band size: 30 kDa

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

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