

Product datasheet

Anti-eEF1A1/EF-Tu antibody [EPR9471] ab157455

Recombinant RabMAb

★★★★☆ 1 Abreviews 2 References 8 Images

Overview

Product name	Anti-eEF1A1/EF-Tu antibody [EPR9471]
Description	Rabbit monoclonal [EPR9471] to eEF1A1/EF-Tu
Host species	Rabbit
Specificity	The immunogen used for this product shares 6 continuous identical amino acids with eEF1A2. Cross-reactivity with this protein has not been confirmed experimentally.
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP, Flow Cyt
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human eEF1A1/EF-Tu aa 400 to the C-terminus. The exact sequence is proprietary. Database link: P68104
Positive control	WB: HeLa, MCF7, 293T and Neuro-2a cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in

our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

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. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9471
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab157455** in the following tested applications.

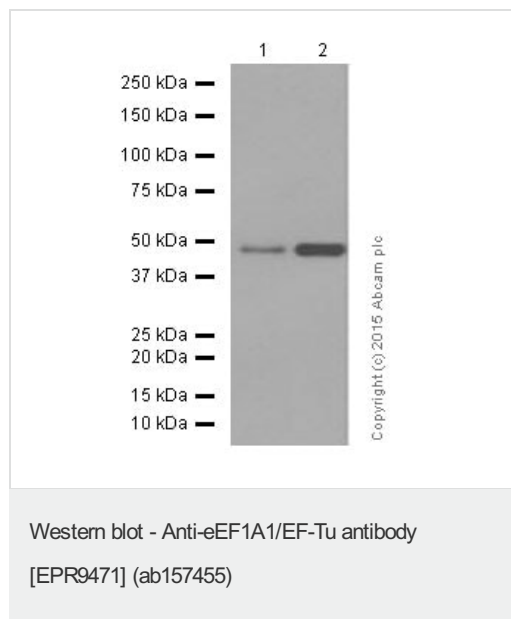
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	1/40000. Predicted molecular weight: 50 kDa. For unpurified use at 1/1000 - 1/10000.
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.
IP		1/10 - 1/100.
Flow Cyt		Use at an assay dependent concentration.

Target

Function	This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.
Tissue specificity	Brain, placenta, lung, liver, kidney, pancreas but barely detectable in heart and skeletal muscle.
Sequence similarities	Belongs to the GTP-binding elongation factor family. EF-Tu/EF-1A subfamily.
Post-translational modifications	ISGylated.
Cellular localization	Cytoplasm.

Images



All lanes : Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455) at 1/40000 dilution (purified)

Lane 1 : Rat kidney lysate

Lane 2 : Rat spleen lysate

Lysates/proteins at 20 µg per lane.

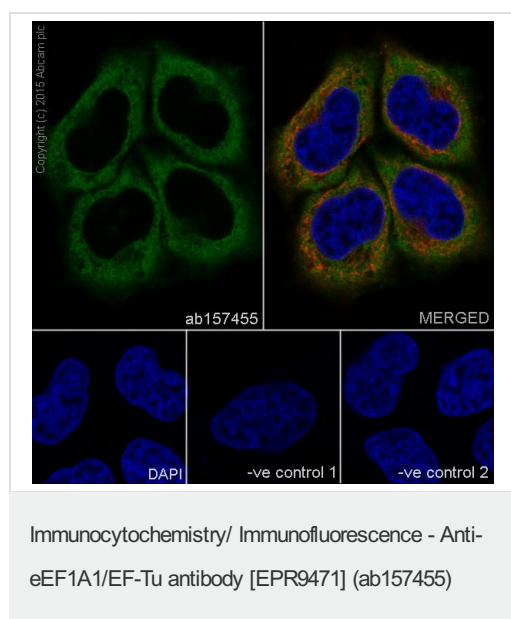
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 50 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

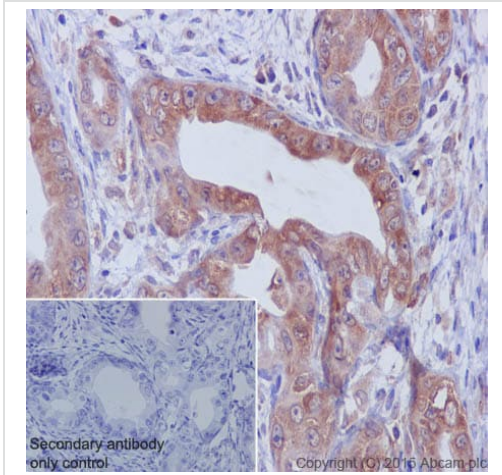


Immunocytochemistry/Immunofluorescence analysis of HeLa (human cervix adenocarcinoma) cells labelling eEF1A1/EF-Tu with purified ab157455 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor[®] 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/100) and secondary antibody, ab150120, an Alexa Fluor[®] 594-conjugated goat anti-mouse IgG (1/500).

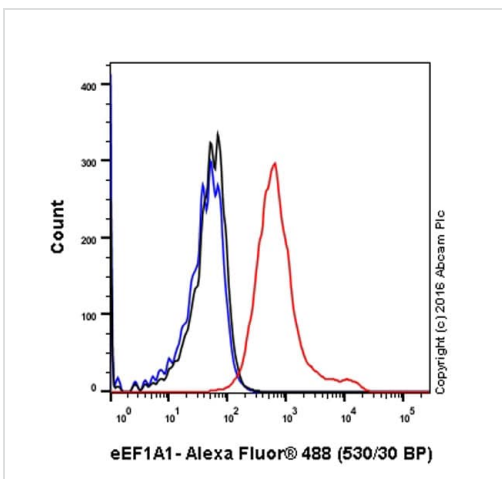
Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an

Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



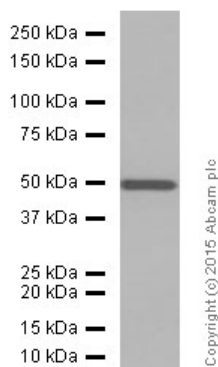
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervix carcinoma tissue labelling eEF1A1/EF-Tu with purified ab157455 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Flow Cytometry - Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455)

Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling eEF1A1/EF-Tu with purified ab157455 at 1/50 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) was used as the unlabeled control.



Western blot - Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455)

Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455) at 1/40000 dilution (purified) + Mouse kidney lysate at 20 µg

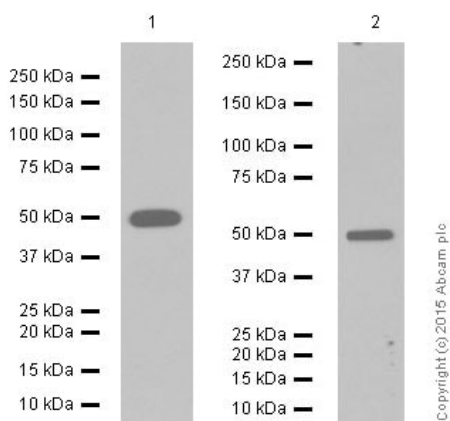
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 50 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.



Western blot - Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455)

All lanes : Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455) at 1/50000 dilution (purified)

Lane 1 : MCF-7 cell lysate

Lane 2 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

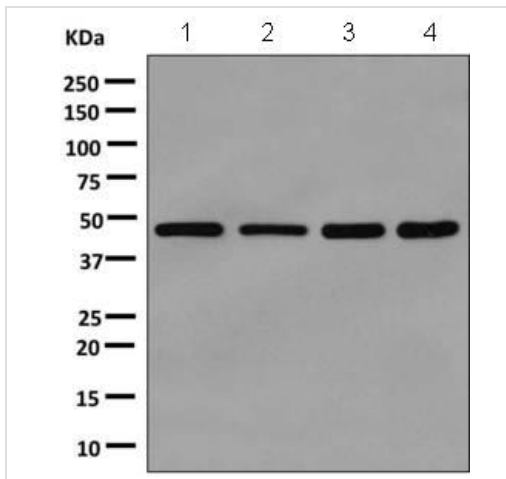
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 20 µg (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 50 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455)

All lanes : Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysate

Lane 2 : MCF7 cell lysate

Lane 3 : 293T cell lysate

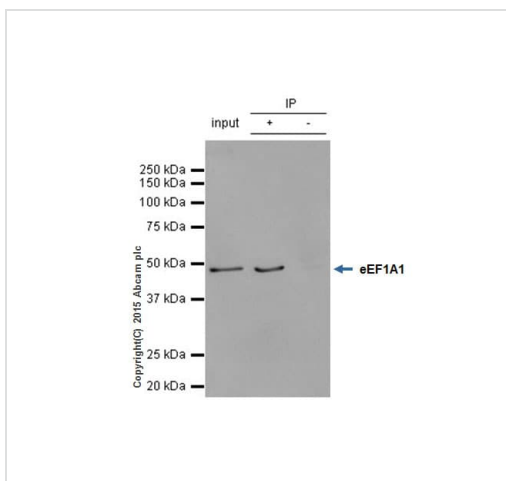
Lane 4 : Neuro-2a cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 50 kDa



Immunoprecipitation - Anti-eEF1A1/EF-Tu antibody [EPR9471] (ab157455)

ab157455 (purified) at 1/30 immunoprecipitating eEF1A1/EF-Tu in HeLa whole cell lysate. 10 µg of cell lysate was present in the input. For western blotting, a HRP-conjugated Veriblot for IP Detection Reagent (ab131366) (1/1,500) was used for detection. A rabbit monoclonal IgG (ab172730) was used instead of ab128913 as a negative control (Lane 3).

Blocking buffer and concentration: 5% NFD/MTBST.

Diluting buffer and concentration: 5% NFD/MTBST.

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

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