


## Product datasheet

# Anti-eEF1A1+eEF1A2+eEF1A3 antibody ab37969

★★★★★ [2 Abreviews](#) [10 References](#) [4 Images](#)

### Overview

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<b>Product name</b>	Anti-eEF1A1+eEF1A2+eEF1A3 antibody
<b>Description</b>	Rabbit polyclonal to eEF1A1+eEF1A2+eEF1A3
<b>Host species</b>	Rabbit
<b>Specificity</b>	Due to sequence homology the antibody recognises all three eEF1A forms, eEF1A1, eEF1A2 and eEF1A3. Through WB ab37969 was found to detect recombinant and endogenous eF1A1 and eF1A2.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Sheep, Rabbit, Horse, Chicken, Hamster, Cow, Cat, Dog, Pig, Chimpanzee, Macaque monkey 
<b>Immunogen</b>	Synthetic peptide corresponding to Human eEF1A1+eEF1A2+eEF1A3 aa 200-300 conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab37968</a> )
<b>Positive control</b>	This antibody gave a positive signal in the following: Human Whole Cell Lysates (HeLa, Jurkat, A431, HEK 293, HepG2, MCF-7, SHSY-5Y, U2OS) Mouse Whole Cell Lysates (NIH 3T3, MEF1) Mouse Tissue Lysates (Brain, Liver, Heart, Kidney, Pancreas, Testis, Skeletal muscle, Spinal Cord, Ovary) Rat Whole Cell Lysate(PC12) Rat Tissue Lysate (Brain, Liver, Heart)
<b>General notes</b>	<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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	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 ab37969 in the following tested applications.

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

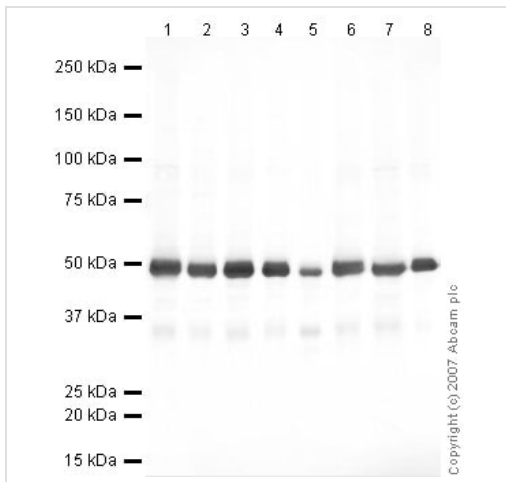
Application	Abreviews	Notes
ICC/IF	★★★★☆ (1)	Use a concentration of 1 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).

## Target

### Relevance

Function: This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. Tissue specificity eEF1A1: Brain, placenta, lung, liver, kidney, pancreas but barely detectable in heart and skeletal muscle. Tissue specificity eEF1A2: Brain, heart, and skeletal muscle. Similarity: Belongs to the GTP-binding elongation factor family. EF-Tu/EF-1A subfamily. PTM eEF1A1: ISGylated.

## Images



Western blot - Anti-eEF1A1+eEF1A2+eEF1AL3 antibody (ab37969)

**All lanes :** Anti-eEF1A1+eEF1A2+eEF1AL3 antibody (ab37969) at 1 µg/ml

**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 :** SHSY-5Y (Human neuroblastoma cell line) Whole Cell Lysate

**Lane 8 :** U2OS (Human osteosarcoma cell line) Whole Cell Lysate

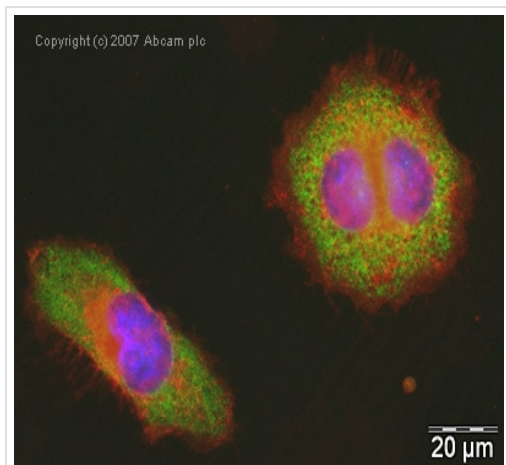
Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

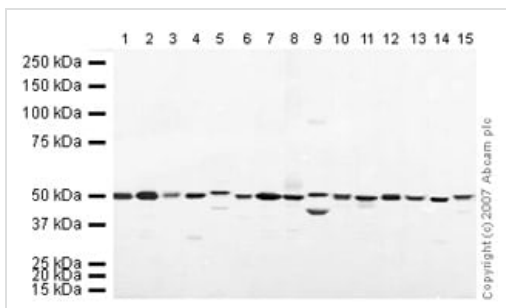
Performed under reducing conditions.

**Predicted band size:** 50 kDa



Immunocytochemistry/ Immunofluorescence - Anti-eEF1A1+eEF1A2+eEF1AL3 antibody (ab37969)

ICC/IF image of ab37969 stained human HeLa cells. The cells were PFA fixed (10 min), permeabilised in TBS-T (20 min) and incubated with the antibody (ab37969, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. 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). DAPI was used to stain the cell nuclei (blue).



Western blot - Anti-eEF1A1+eEF1A2+eEF1AL3 antibody (ab37969)

**All lanes :** Anti-eEF1A1+eEF1A2+eEF1AL3 antibody (ab37969) at 1 µg/ml

**Lane 1 :** NIH/3T3 whole cell lysate (**ab7179**)

**Lane 2 :** MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

**Lane 3 :** Brain (Mouse) Tissue Lysate

**Lane 4 :** Liver (Mouse) Tissue Lysate - normal tissue

**Lane 5 :** Heart (Mouse) Tissue Lysate

**Lane 6 :** Kidney (Mouse) Tissue Lysate

**Lane 7 :** Mouse pancreas tissue lysate - total protein (**ab29363**)

**Lane 8 :** Testis (Mouse) Tissue Lysate

**Lane 9 :** Mouse skeletal muscle tissue lysate - total protein (**ab29711**)

**Lane 10 :** Spinal Cord (Mouse) Tissue Lysate

**Lane 11 :** Ovary (Mouse) Tissue Lysate - normal tissue

**Lane 12 :** PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

**Lane 13 :** Brain (Rat) Tissue Lysate - normal tissue

**Lane 14 :** Liver (Rat) Tissue Lysate

**Lane 15 :** Heart (Rat) Tissue Lysate

**Lane 16 :** Kidney (Rat) Whole Cell Lysate - normal tissue (**ab29480**)

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 50 kDa

**Additional bands at:** 45 kDa. We are unsure as to the identity of these extra bands.



Western blot - Anti-eEF1A1+eEF1A2+eEF1AL3 antibody (ab37969)

**All lanes** : Anti-eEF1A1+eEF1A2+eEF1AL3 antibody (ab37969) at 1 µg/ml

**Lane 1** : Recombinant Human eEF1A1/EF-Tu protein ([ab81792](#))

**Lane 2** : Human EEF1A2 full length protein ([ab40317](#))

Lysates/proteins at 0.1 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Performed under reducing conditions.

**Predicted band size:** 50 kDa

**Exposure time:** 3 minutes

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

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