

Product datasheet

Anti-eIF2A antibody ab235147

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

Overview

Product name	Anti-eIF2A antibody
Description	Rabbit polyclonal to eIF2A
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: eIF2A human protein over HEK-293 expressing lysate; Daudi and HeLa whole cell lysate. ICC/IF: HeLa cells.
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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituent: PBS
Purity	Affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab235147 in the following tested applications.

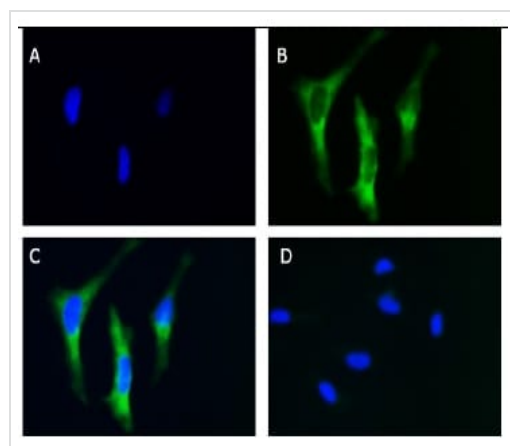
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
WB		1/1000. Predicted molecular weight: 65 kDa.

Target

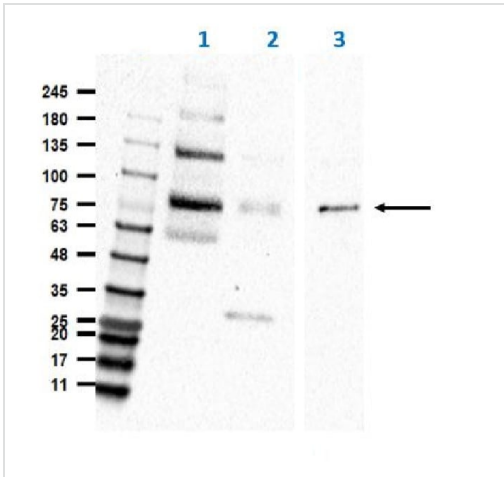
Function	Functions in the early steps of protein synthesis of a small number of specific mRNAs. Acts by directing the binding of methionyl-tRNAi to 40S ribosomal subunits. In contrast to the eIF-2 complex, it binds methionyl-tRNAi to 40 S subunits in a codon-dependent manner, whereas the eIF-2 complex binds methionyl-tRNAi to 40 S subunits in a GTP-dependent manner. May act by impinging the expression of specific proteins.
Tissue specificity	Widely expressed. Expressed at higher level in pancreas, heart, brain and placenta.
Sequence similarities	Belongs to the WD repeat EIF2A family. Contains 3 WD repeats.

Images



4% paraformaldehyde-fixed, 0.3% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate labeling eIF2A using ab235147 at 5 µg/mL overnight at 4°C in ICC/IF analysis. Anti-Goat IgG DyLight™ 488 Conjugated Preadsorbed was used as the secondary antibody at 5 µg/mL for 1 hour at room temperature.

Immunocytochemistry/ Immunofluorescence - Anti-eIF2A antibody (ab235147)



Western blot - Anti-eIF2A antibody (ab235147)

All lanes : Anti-eIF2A antibody (ab235147) at 5 µg/ml

Lane 1 : Daudi whole cell lysate at 35 µg

Lane 2 : MCF7 whole cell lysate at 35 µg

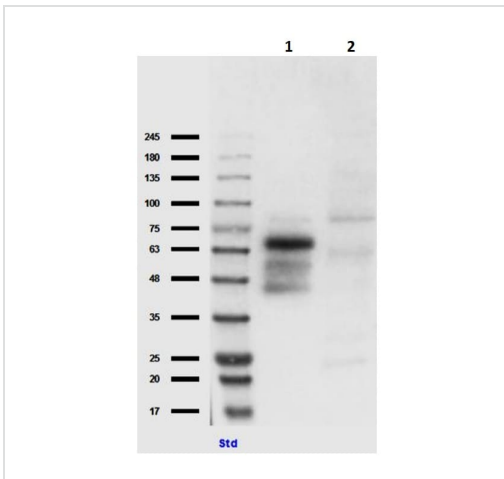
Lane 3 : HeLa whole cell lysate

Secondary

All lanes : Donkey anti-Goat HRP at 1/40000 dilution

Predicted band size: 65 kDa

Exposure time: 35 seconds



Western blot - Anti-eIF2A antibody (ab235147)

All lanes : Anti-eIF2A antibody (ab235147) at 1/1000 dilution

Lane 1 : eIF2A human protein over HEK293 expressing lysate

Lane 2 : HEK293 lysate (empty vector)

Secondary

All lanes : Donkey Fab2 anti-Goat HRP at 1/70000 dilution

Predicted band size: 65 kDa

Exposure time: 15 seconds

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

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