

Anti-eIF4B antibody [1F5] ab129369

[4 Images](#)

Overview

Product name	Anti-eIF4B antibody [1F5]
Description	Mouse monoclonal [1F5] to eIF4B
Host species	Mouse
Tested applications	Suitable for: WB, Flow Cyt, ICC/IF
Species reactivity	Reacts with: Mouse, Human, Recombinant fragment
Immunogen	Purified recombinant fragment of Human eIF4B expressed in <i>E. Coli</i> .
Positive control	A549, A431, HepG2, HEK293, Jurkat, K562 and MCF-7 cell lysates. HeLa and NIH3T3 cells.
General notes	<p>This product was changed from ascites to supernatant. Lot no's high than GR185156-5 are from Tissue Culture Supernatant</p> <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). Store at -20°C long term.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 99% PBS
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	1F5
Isotype	IgG2b

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab129369 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		1/500 - 1/2000. Detects a band of approximately 80 kDa (predicted molecular weight: 69 kDa).
Flow Cyt		1/200 - 1/400. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
ICC/IF		1/200 - 1/1000.

Target

Function

Required for the binding of mRNA to ribosomes. Functions in close association with EIF4-F and EIF4-A. Binds near the 5'-terminal cap of mRNA in presence of EIF-4F and ATP. Promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both EIF4-A and EIF4-F.

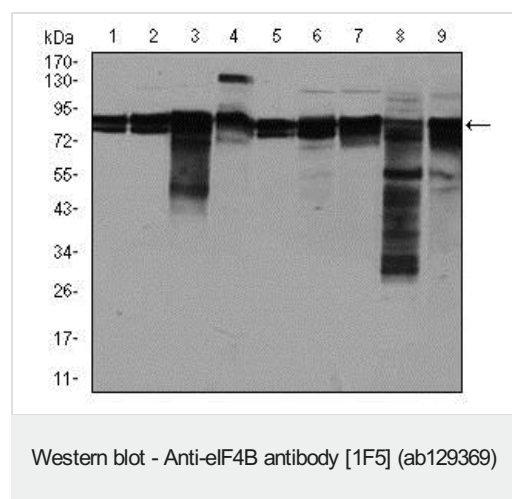
Sequence similarities

Contains 1 RRM (RNA recognition motif) domain.

Post-translational modifications

Phosphorylated at Ser-422 by RPS6KA1 and RPS6KB1; phosphorylation enhances the affinity of EIF4B for the EIF3 complex.

Images



All lanes : Anti-eIF4B antibody [1F5] (ab129369) at 1/500 dilution

Lane 1 : A549 cell lysate

Lane 2 : A431 cell lysate

Lane 3 : HepG2 cell lysate

Lane 4 : HEK293 cell lysate

Lane 5 : HeLa cell lysate

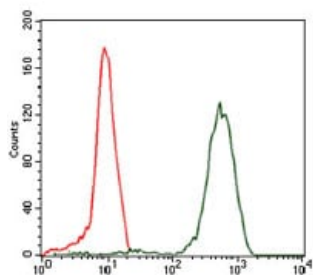
Lane 6 : Jurkat cell lysate

Lane 7 : K562 cell lysate

Lane 8 : NIH3T3 cell lysate

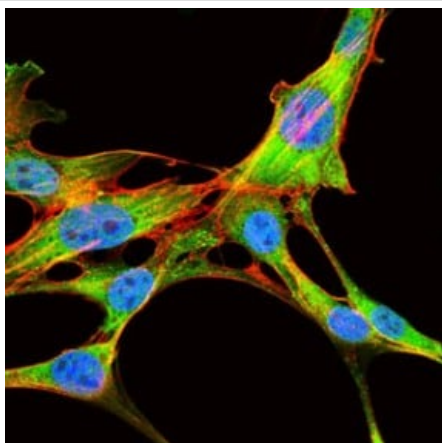
Lane 9 : MCF-7 cell lysate

Predicted band size: 69 kDa



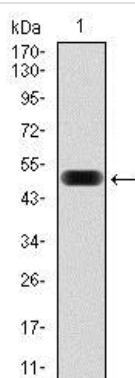
Flow Cytometry - Anti-eIF4B antibody [1F5]
(ab129369)

ab129369 at 1/200 dilution (green) or negative control (red) staining eIF4B in HeLa cells by flow cytometry.



Immunocytochemistry/ Immunofluorescence - Anti-eIF4B antibody [1F5] (ab129369)

ab129369 at 1/200 dilution staining eIF4B in NIH3T3 cells by immunofluorescence. DNA was stained with DRAQ5 dye (blue) and actin with Alexa 555 phalloidin (red).



Western blot - Anti-eIF4B antibody [1F5] (ab129369)

Anti-eIF4B antibody [1F5] (ab129369) at 1/500 dilution + eIF4B recombinant fragment (aa 381-585)

Predicted band size: 69 kDa

The expected molecular weight of the recombinant fragment is 48 kDa.

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