


## Product datasheet

# Anti-eIF4B antibody **ab50103**

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### Overview

<b>Product name</b>	Anti-eIF4B antibody
<b>Description</b>	Rabbit polyclonal to eIF4B
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow 
<b>Immunogen</b>	Synthetic peptide conjugated to KLH derived from within residues 550 to the C-terminus of Human eIF4B. Read Abcam's proprietary immunogen policy (Peptide available as <a href="#">ab50102</a> .)
<b>Positive control</b>	This antibody gave a positive signal in the following whole cell lysates: HeLa (Human epithelial carcinoma cell line) Jurkat (Human T cell lymphoblast-like cell line) A431 (Human epithelial carcinoma cell line) HEK293 (Human embryonic kidney cell line) MCF7 (Human breast adenocarcinoma cell line)

### Properties

<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>	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab50103** in the following tested applications.

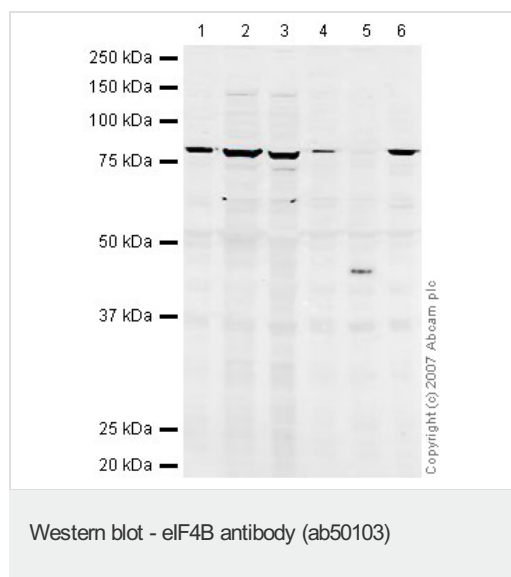
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/250. Detects a band of approximately 80 kDa (predicted molecular weight: 69 kDa).

## Target

<b>Function</b>	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.
<b>Sequence similarities</b>	Contains 1 RRM (RNA recognition motif) domain.
<b>Post-translational modifications</b>	Phosphorylated at Ser-422 by RPS6KA1 and RPS6KB1; phosphorylation enhances the affinity of EIF4B for the EIF3 complex.

## Images



**All lanes :** Anti-eIF4B antibody (ab50103) at 1/250 dilution

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

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

**Lane 3 :** A431 whole cell lysate ([ab7909](#))

**Lane 4 :** HEK293 whole cell lysate ([ab7902](#))

**Lane 5 :** HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

**Lane 6 :** MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

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

Performed under reducing conditions.

**Predicted band size :** 69 kDa

**Observed band size :** 80 kDa

**Additional bands at :** 46 kDa. We are unsure as to the identity of these extra bands.

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