

Product datasheet

Anti-eIF4EBP1 (phospho T36) antibody ab47365

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Overview

<b>Product name</b>	Anti-eIF4EBP1 (phospho T36) antibody
<b>Description</b>	Rabbit polyclonal to eIF4EBP1 (phospho T36)
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab47365 detects endogenous levels of 4E-BP1 only when phosphorylated at threonine 36. This antibody may cross-react with 4E-BP2 and 4E-BP3 when phosphorylated at equivalent sites.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	The antiserum was produced against synthesized phosphopeptide derived from human 4E-BP1 around the phosphorylation site of threonine 36 (S-T-T <sup>P</sup> -P-G).
<b>Positive control</b>	MDA-MB-435 cell extracts; Human breast carcinoma tissue

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	The antibody was affinity-purified from rabbit antiserum by affinity chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab47365** in the following tested applications.

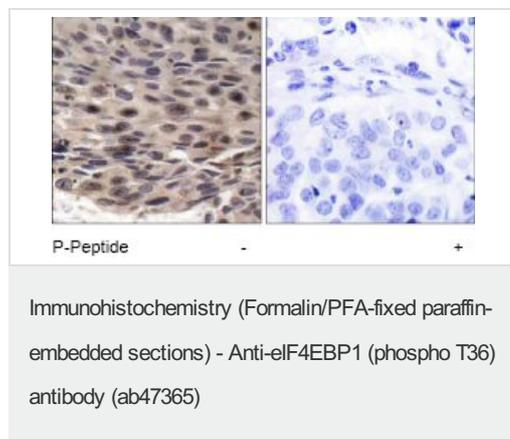
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 - 5 µg/ml.
WB		1/500 - 1/1000. Detects a band of approximately 20 kDa (predicted molecular weight: 13 kDa).
IHC-P		Use at an assay dependent concentration.
ELISA		1/10000.

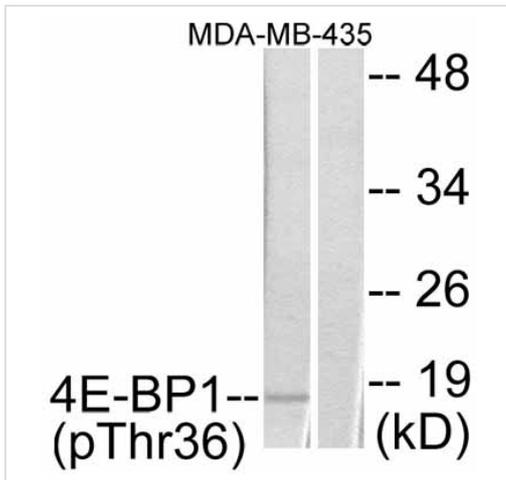
## Target

<b>Function</b>	Regulates eIF4E activity by preventing its assembly into the eIF4F complex. Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways.
<b>Sequence similarities</b>	Belongs to the eIF4E-binding protein family.
<b>Post-translational modifications</b>	Phosphorylated on serine and threonine residues in response to insulin, EGF and PDGF. Phosphorylation at Thr-37, Thr-46, Ser-65 and Thr-70 is regulated by mTORC1. Phosphorylated upon DNA damage, probably by ATM or ATR.

## Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ab47365. Left image without immunising peptide treatment; right image with immunising peptide treatment.



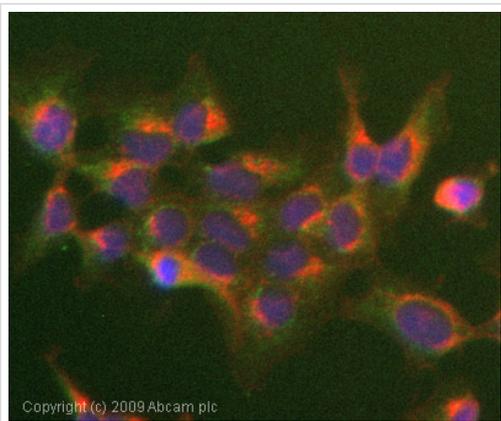
Western blot - Anti-eIF4EBP1 (phospho T36) antibody (ab47365)

**All lanes :** Anti-eIF4EBP1 (phospho T36) antibody (ab47365)

**Lane 1 :** MDA-MB-435 cells, treated with EGF (200 ng/ml, 30min)

**Lane 2 :** MDA-MB-435 cells, untreated

**Predicted band size:** 13 kDa



Immunocytochemistry/ Immunofluorescence - Anti-eIF4EBP1 (phospho T36) antibody (ab47365)

ICC/IF image of ab47365 stained Hek293 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab47365, 1 µg/ml) overnight at +4°C. 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) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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