


Anti-eIF4EBP1 (phospho T36) antibody ab47365

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Overview

Product name	Anti-eIF4EBP1 (phospho T36) antibody
Description	Rabbit polyclonal to eIF4EBP1 (phospho T36)
Host species	Rabbit
Specificity	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.
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide corresponding to Human eIF4EBP1 aa 1-100 (phospho T36). Database link: Q13541
Positive control	MDA-MB-435 cell extracts; Human breast carcinoma tissue
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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride Without Mg+2 and Ca+2
Purity	Immunogen affinity purified
Purification notes	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.

Clonality

Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

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.

Target

Function

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.

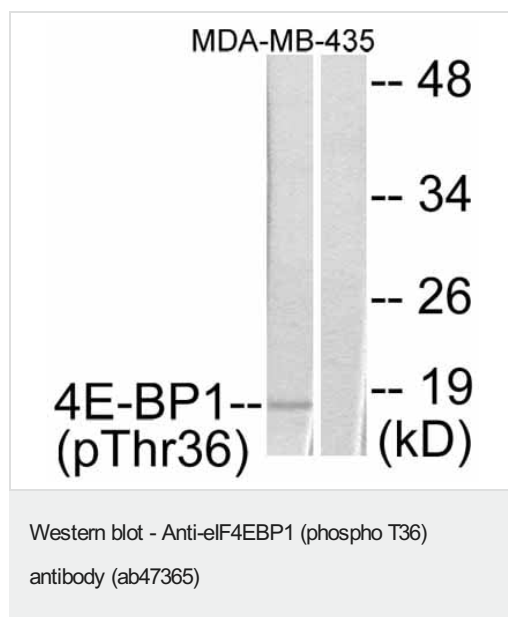
Sequence similarities

Belongs to the eIF4E-binding protein family.

Post-translational modifications

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

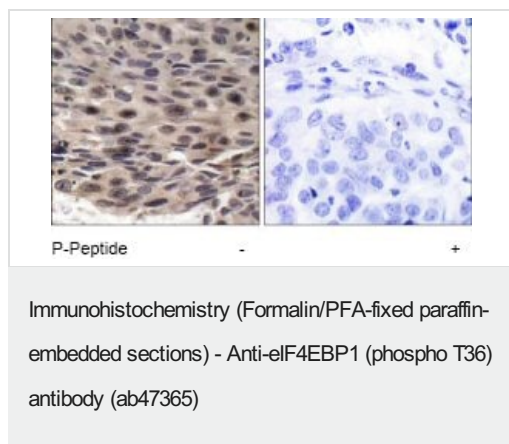


All lanes : Anti-eIF4EBP1 (phospho T36) antibody (ab47365)

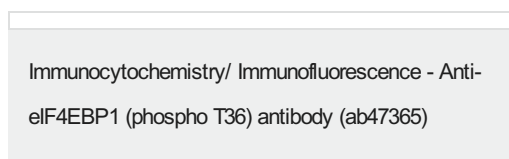
Lane 1 : MDA-MB-435 cells, treated with EGF (200 ng/ml, 30min)

Lane 2 : MDA-MB-435 cells, untreated

Predicted band size: 13 kDa



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



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, 1µg/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.

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

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