

# Phospho-eIF4EBP1-T37 Rabbit mAb

Catalog No.: AP1382 **Recombinant**

## Basic Information

**Observed MW**

15-20kDa

**Calculated MW**

13kDa

**Category**

Primary antibody

**Applications**

WB, ELISA

**Cross-Reactivity**

Rat

**CloneNo number**

ARC56857

## Background

This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation.

## Recommended Dilutions

**WB** 1:500 - 1:1000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

1978

**Swiss Prot**

Q13541

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

BP-1; 4EBP1; 4E-BP1; PHAS-I; Phospho-eIF4EBP1-T37

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

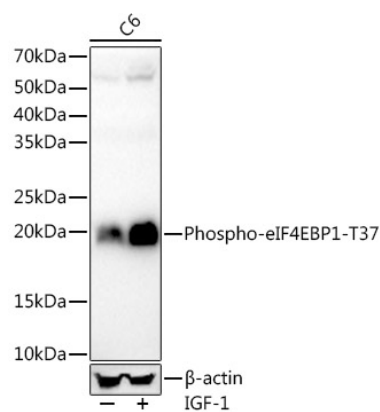
Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



Western blot analysis of lysates from C6 cells, using Phospho-eIF4EBP1-T37 Rabbit mAb (AP1382) at 1:1000 dilution. C6 cells were treated with IGF-1 (100 ng/ml) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 60s.