

## **Product datasheet for TA375830**

## Product datasneet for TA3/3630

## **EIF4EBP1 Rabbit Polyclonal Antibody**

**Product data:** 

**Product Type:** Primary Antibodies

**Applications:** IHC, WB

Recommended Dilution: WB,1:500 - 1:2000

IHC,1:50 - 1:200

Reactivity: Human, Mouse, Rat

Modifications: Phospho T37/46

**Host:** Rabbit

**Isotype:** IgG

Clonality: Polyclonal

**Immunogen:** A phospho specific peptide corresponding to residues surrounding T37/46 of human

Phospho-eIF4EBP1-T37/46

**Formulation:** Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

**Concentration:** lot specific

**Purification:** Affinity purification

Conjugation: Unconjugated

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

**Stability:** Shelf life: one year from despatch.

**Predicted Protein Size:** 12kDa

**Gene Name:** eukaryotic translation initiation factor 4E binding protein 1

Database Link: Entrez Gene 1978 Human

Q13541

**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.



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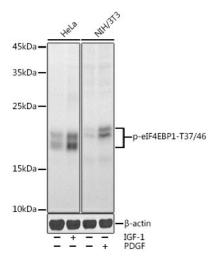
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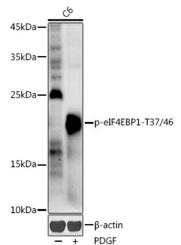


Synonyms:

4E-BP1; 4EBP1; BP-1; MGC4316; PHAS-I

## **Product images:**





Western blot analysis of extracts of various cell lines, using Phospho-eIF4EBP1-T37/46 antibody (TA375830) at 1:1000 dilution.HeLa cells were treated by IGF-1 (50 ng/ml) at 37°C for 30 minutes after serum-starvation overnight.NIH/3T3 cells were treated by PDGF (100 ng/ml) at 37°C for 30 minutes after serum-starvation overnight. |Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. |Lysates/proteins: 25ug per lane. |Blocking buffer: 3% nonfat dry milk in TBST. |Detection: ECL Enhanced Kit. |Exposure time: 30s.

Western blot analysis of extracts of C6 cells, using Phospho-eIF4EBP1-T37/46 antibody (TA375830) at 1:1000 dilution.C6 cells were treated by PDGF (100 ng/ml) at 37°C for 30 minutes after serumstarvation overnight. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Enhanced Kit. | Exposure time: 180s.