

Phospho-eIF4EBP1-T37/46 Rabbit pAb

Catalog No.: AP0030

13 Publications

Basic Information

Observed MW

15kDa-20kDa

Calculated MW

13kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

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
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

1978

Swiss Prot

Q13541

Immunogen

A synthetic phosphorylated peptide around T37 & T46 of human eIF4EBP1 (NP_004086.1).

Synonyms

BP-1; 4EBP1; 4E-BP1; PHAS-I; Phospho-eIF4EBP1-T37/46

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

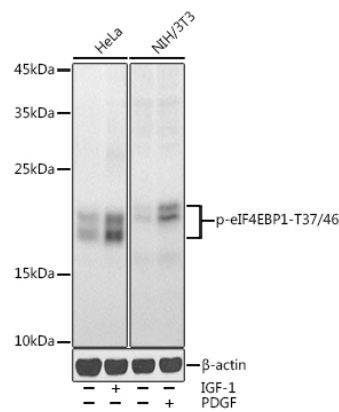
Affinity purification

Storage

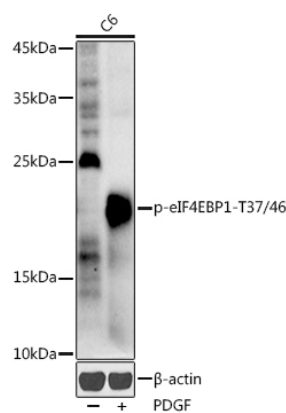
Store at -20°C. Avoid freeze / thaw cycles.

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

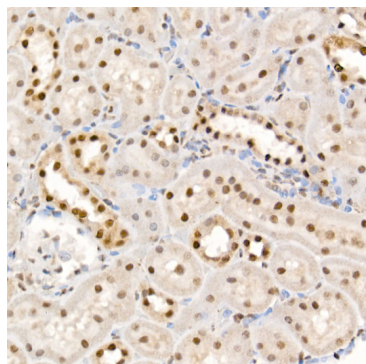
Validation Data



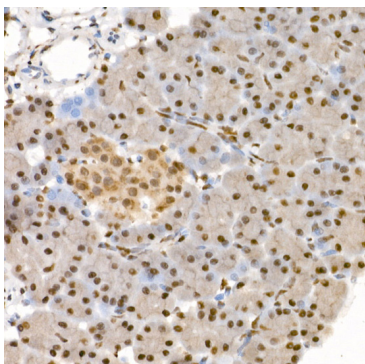
Western blot analysis of various lysates using Phospho-eIF4EBP1-T37/46 Rabbit pAb (AP0030) at 1:1000 dilution. HeLa cells were treated by IGF-1 (50 ng/ml) at 37°C for 30 minutes after serum-starvation overnight. NIH/3T3 cells were treated by PDGF (100 ng/ml) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (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: 30s.



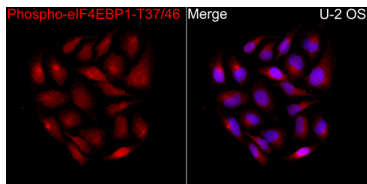
Western blot analysis of lysates from C6 cells, using Phospho-eIF4EBP1-T37/46 Rabbit pAb (AP0030) at 1:1000 dilution. C6 cells were treated by PDGF (100 ng/ml) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 180s.



Immunohistochemistry analysis of Phospho-eIF4EBP1-T37/46 in paraffin-embedded rat kidney using Phospho-eIF4EBP1-T37/46 Rabbit pAb (AP0030) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-eIF4EBP1-T37/46 in paraffin-embedded rat pancreas using Phospho-eIF4EBP1-T37/46 Rabbit pAb (AP0030) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of U-2 OS cells using Phospho-eIF4EBP1-T37/46 Rabbit pAb (AP0030) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.