

Phospho-eIF4EBP1-T37/46 Rabbit mAb

Catalog No.: AP1645 **Recombinant**

Basic Information

Observed MW

15-20 kDa

Calculated MW

13 kDa

Category

Primary antibody

Applications

WB, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC3915

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 1:3000 - 1:20000

IHC-P 1:200 - 1:2000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

1978

Swiss Prot

Q13541

Immunogen

This information is considered to be commercially sensitive.

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

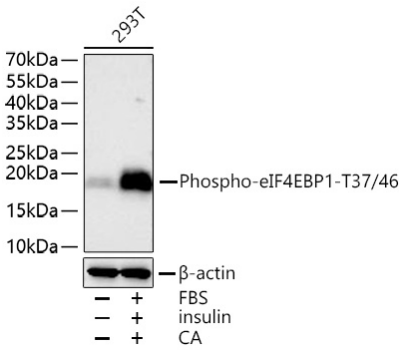
Contact

☎ | 400-999-6126

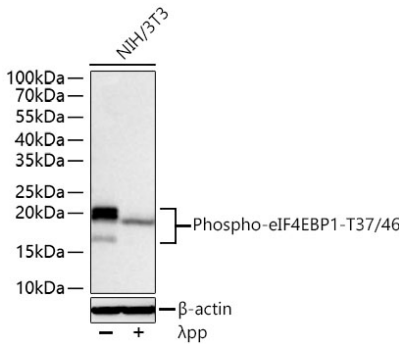
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

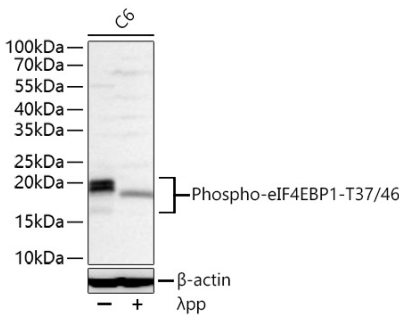
Validation Data



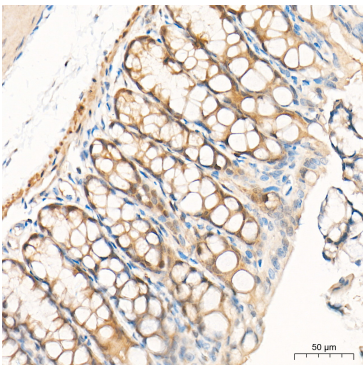
Western blot analysis of lysates from 293T cells using Phospho-eIF4EBP1-T37/46 Rabbit mAb (AP1645) at 1:16000 dilution incubated overnight at 4°C. Following 24 hours of serum starvation and 1 hour of amino acid deprivation, 293T cells were treated with FBS (20%), insulin (100 nM), and CA (100 nM) at 37°C for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.



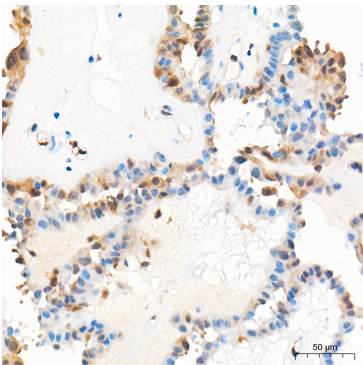
Western blot analysis of lysates from NIH/3T3 cells using Phospho-eIF4EBP1-T37/46 Rabbit mAb (AP1645) at 1:10000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with λpp (2 U/µL) at 30°C for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.



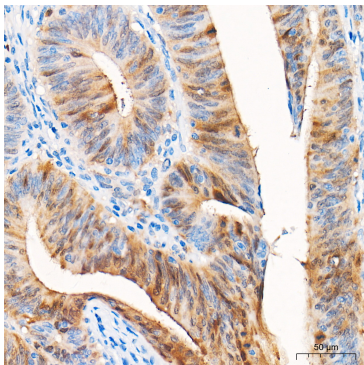
Western blot analysis of lysates from C6 cells using Phospho-eIF4EBP1-T37/46 Rabbit mAb (AP1645) at 1:10000 dilution incubated overnight at 4°C. C6 cells were treated with λpp (2 U/µL) at 30°C for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using



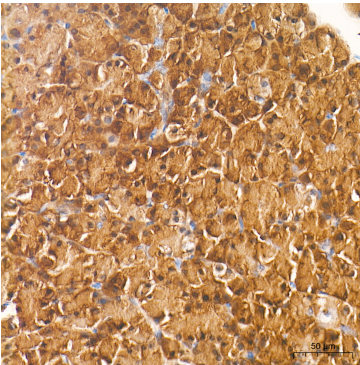
Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue

Validation Data

Phospho-eIF4EBP1-T37/46 Rabbit mAb (AP1645) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat pancreas tissue using Phospho-eIF4EBP1-T37/46 Rabbit mAb (AP1645) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

using Phospho-eIF4EBP1-T37/46 Rabbit mAb (AP1645) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

using Phospho-eIF4EBP1-T37/46 Rabbit mAb (AP1645) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.