

Phospho-eIF4EBP1-T70 Rabbit pAb

Catalog No.: AP0031

Basic Information

Observed MW

17kDa

Calculated MW

13kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P

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 - 1:2000
IHC-P	1:50 - 1:200

Immunogen Information

Gene ID

1978

Swiss Prot

Q13541

Immunogen

A synthetic phosphorylated peptide around T70 of human Phospho-eIF4EBP1-T70 (NP_004086.1).

Synonyms

BP-1; 4EBP1; 4E-BP1; PHAS-I; Phospho-eIF4EBP1-T70

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

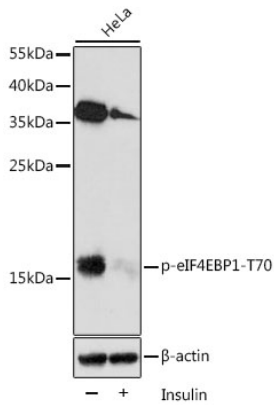
Affinity purification

Storage

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

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

Validation Data



Western blot analysis of lysates from HeLa cells, using Phospho-eIF4EBP1-T70 Rabbit pAb (AP0031) at 1:2000 dilution. HeLa cells were treated by Insulin (100 nM) at 37°C for 5 minutes after serum-starvation overnight.

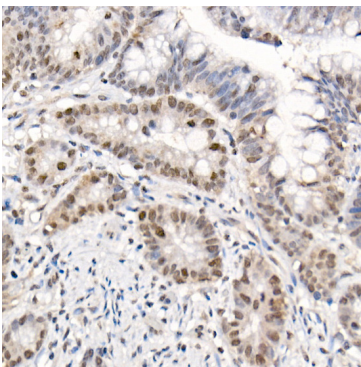
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

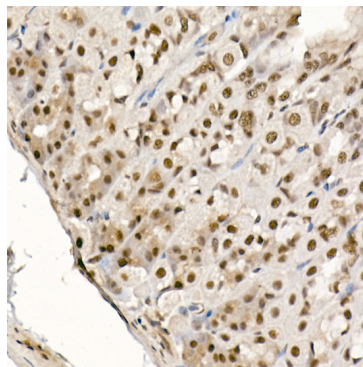
Blocking buffer: 3% BSA.

Detection: ECL Enhanced Kit (RM00021).

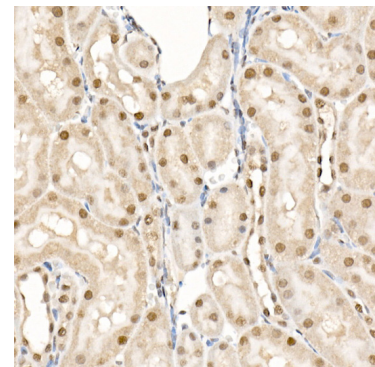
Exposure time: 3min.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using Phospho-eIF4EBP1-T70 Rabbit pAb (AP0031) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Mouse stomach using Phospho-eIF4EBP1-T70 Rabbit pAb (AP0031) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Rat kidney using Phospho-eIF4EBP1-T70 Rabbit pAb (AP0031) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.