

For Research Use Only

Phospho-4EBP1 (Thr37) Recombinant antibody



Catalog Number: 81812-4-RR

Basic Information

Catalog Number:

81812-4-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC004459

GeneID (NCBI):

1978

UNIPROT ID:

Q13541

Full Name:

eukaryotic translation initiation
factor 4E binding protein 1

Calculated MW:

118 aa, 12 kDa

Observed MW:

15-20 kDa

Purification Method:

Protein A purification

CloneNo.:

240535G3

Recommended Dilutions:

WB 1:1000-1:4000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HEK-293T cells, λ phosphatase treated HEK-293T cells

Background Information

4EBP1 (4E-BP1) is a translational regulator and functions by sequestering eukaryotic translation initiation factor 4E (eIF4E) from the translation initiation machinery. 4E-BP1 contains at least six phosphorylation sites (Thr37, Thr46, Ser65, Thr70, Ser83, and Ser112), four of which (Thr37, Thr46, Ser65, and Thr70) are known to be regulated by mTOR signaling. Phosphorylation of Thr37 and Thr46 is thought to prime 4E-BP1 for sequential phosphorylation of Ser65 and Thr70, which results in the dissociation of 4E-BP1 from eIF4E. (PMID: 12747827)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

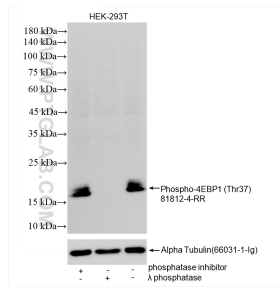
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Non-treated HEK-293T cells, phosphatase inhibitor treated HEK-293T cells and λ phosphatase treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 81812-4-RR (Phospho-4EBP1 (Thr37) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.