

Phospho-EIF4EBP1-S65

Reactivity: Human Mouse Rat

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:2000

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding S65 of human EIF4EBP1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

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

Catalog #: AP0032

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 1978

Isotype: IgG

Swiss Prot: Q13541

Purity: Affinity purification

For research use only.

Background:

Translation repressor protein 4E-BP1 (also known as PHAS-1) inhibits cap-dependent translation by binding to the translation initiation factor eIF4E. Hyperphosphorylation of 4E-BP1 disrupts this interaction and results in activation of cap-dependent translation (1). Both the PI3 kinase/Akt pathway and FRAP/mTOR kinase regulate 4E-BP1 activity (2,3). Multiple 4E-BP1 residues are phosphorylated in vivo (4). While phosphorylation by FRAP/mTOR at Thr37 and Thr46 does not prevent the binding of 4E-BP1 to eIF4E, it is thought to prime 4E-BP1 for subsequent phosphorylation at Ser65 and Thr70 (5).

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