

Product Data Sheet: Phospho-EIF4EBP1 (S65)

Cat. No: MAB-94212 Conjugate: Unconjugated

Size: 100 ug Clone: D9G1Q **Concentration:** 1mg/ml Host: Rb Isotype: **IgG**

Reactivity: Hu, Ms, Rt WB 1:1000 **Applications: Molecular Weight:** 15 kDa

Monoclonal antibody is produced by immunizing animals with a synthetic **Purification:**

phosphopeptide corresponding to residues surrounding Ser65 of human 4E-BP1

protein.

Translation repressor protein 4E-BP1 (also known as PHAS-1) inhibits capdependent 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 **Background:**

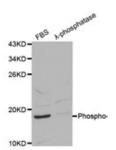
phosphorylated in vivo (4). While phosphorylation by FRAP/mTOR at Thr37 and Thr46 does not prevent the binding of 4E-BP1 to eIF4E, it is thought to prime 4E-BP1 for subsequent phosphorylation at Ser65 and Thr70 (5).Phospho-4E-BP1 (Ser65) (D9G1Q) Rabbit mAb recognizes endogenous levels of 4EBP1 protein only

when phosphorylated at Ser65.

Form:

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

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



Western blot analysis on 293 cell lysates using Phospho-4E-BP1 (Ser65) antibody

References



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Genes Dev 12, 502-13. (4) Fadden, P. et al. (1997) J Biol Chem 272, 10240-7. (5) Gingras, A.C. et al. (1999) Genes Dev 13, 1422-37..

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