

Product Data Sheet: Phospho-EIF4EBP1 (S65)

Cat. No: ABP-0032

Conjugate: Unconjugated

Size: 100 ug Clone: Poly **Concentration:** 1mg/ml Host: Rb

Isotype: **IgG**

Reactivity: Hu, Ms, Rt WB: 1:1000 **Applications:**

Molecular Weight: 15 kDa

Polyclonal antibodies are produced by immunizing animals with a synthetic **Purification:**

phosphopeptide corresponding to the sequence of mouse 4E-BP1. Antibodies are

purified by protein A and peptide affinity chromatography

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) Antibody recognizes endogenous levels of 4EBP1 protein only when

phosphorylated at Ser65.

Form:

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

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

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