

4E-BP1 Ab

Cat.#: BF0392	Concn.: 1mg/ml	Mol.Wt.: 12kDa
Size: 50ul,100ul,200ul	Source: Mouse	Clonality: Monoclonal

Application: ELISA 1/10000, WB 1/500 - 1/2000, IHC 1/200 - 1/1000

Reactivity: Human

Purification: Affinity-chromatography.

Specificity: 4E-BP1 Ab detects endogenous levels of total 4E-BP1.

Immunogen: Purified recombinant fragment of human 4E-BP1 expressed in E. Coli.

Uniprot: Q13541

Description: 4E-BP1(eukaryotic translation Initiation Factor 4E Binding Protein 1),also called ELF4EBP1/BP-1/PHAS-I ,which is located on chromosome 8p12, with 118-amino acid protein (about 13kDa). Binding of eIF4EBP1 to eIF4E is reversible and is dependent on the phosphorylation status of eIF4EBP1. Non phosphorylated eIF4EBP1 will bind strongly to eIF4E while(24kDa), the phosphorylated form will not. Akt, TOR, MAP kinase, S6 kinase, and Cdc2 are known kinases capable of inactivating eIF4EBP1 binding to eIF4E by phosphorylating either threonines 35, 45, 69 or serine 64. Although, not all phosphorylation events equally block the eIF4EBP1-eIF4E interaction.

Similarity: The TOS motif mediates interaction with RPTOR, leading to promote phosphorylation by mTORC1 complex.Belongs to the eIF4E-binding protein family.

Storage Condition and Buffer: Mouse IgG1 in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.

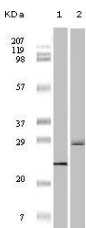


Figure 1: Western blot analysis using 4E-BP1 mouse mAb against truncated 4E-BP1 recombinant protein (1) and A431 cell lysates (2).

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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