

## PRODUCT DATA SHEET

Bioworld Technology,Inc.

# 4EBP1 (Phospho-T46) Rabbit monoclonal antibody

Catalog: MB66300 Host: Rabbit Reactivity: Human, Mouse, Rat

#### **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. Both the PI3 kinase/Akt pathway and FRAP/mTOR kinase regulate 4E-BP1 activity. Multiple 4E-BP1 residues are phosphorylated in vivo. 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.

# **Product:**

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

#### **Molecular Weight:**

~ 15 kDa

#### **Swiss-Prot:**

Q13541

## **Purification&Purity:**

The antibody was purified by immunogen affinity chromatography.

## **Applications:**

WB (1/500 - 1/1000), IHC (1/50 - 1/100), IP (1/10 - 1/50)

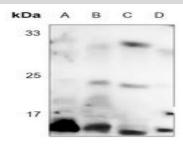
#### Storage&Stability:

Store at  $4\,\mathrm{C}$  short term. Aliquot and store at -20  $\mathrm{C}$  long term. Avoid freeze-thaw cycles.

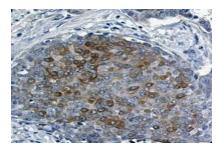
### **Specificity:**

Recognizes endogenous levels of 4EBP1 (pT46) protein.

#### **DATA:**



Western blot analysis of 4EBP1 (pT46) expression in K562 (A), C6 (B), NIH3T3 (C), Hela (D) whole cell lysates.



Immunohistochemical analysis of 4EBP1 (pT46) staining in human breast carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with so-dium citrate buffer (pH 6.7). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

# Note:

For research use only, not for use in diagnostic procedure.

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