

## 4E-BP1 (Phospho-Ser64) polyclonal antibody

Catalog: AP0525

Host: Rabbit

Reactivity: Human

### 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:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

### Molecular Weight:

~ 20 kDa

### Swiss-Prot:

Q13541

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IP: 1:50~1:200

### Storage&Stability:

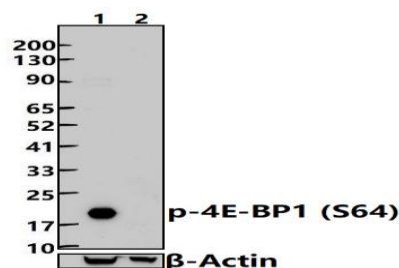
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

4E-BP1 (Phospho-Ser64) polyclonal antibody detects endogenous levels of 4E-BP1 protein only when phos-

phorylated at Ser64.

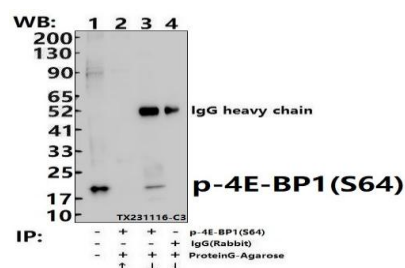
### DATA:



Western blot (WB) analysis of 4E-BP1 (Phospho-Ser64) polyclonal antibody at 1:500 dilution

Lane1:MCF-7 whole cell lysate(30ug)

Lane2:MCF-7 treated with λ-phosphatase whole cell lysate(30ug)



Immunoprecipitation of MCF-7 cell lysates using (Phospho-Ser64) pAb (Sepharose Bead Conjugate)#BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 4) .Lane 1 is 30% input. The western blot was probed using (Phospho-Ser64) pAb.

### Note:

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

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