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# eIF4EBP1 Antibody
**Rabbit mAb**
**Catalog # AP91014**

## Specification

### eIF4EBP1 Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC, FC, ICC, IP** |
| Primary Accession | Q13541 |
| Reactivity | **Rat** |
| Clonality | **Monoclonal** |
| **Other Names** | |
| 4E-BP1; 4EBP1; BP-1; MGC4316; PHAS-I; | |
| Isotype | **Rabbit IgG** |
| Host | **Rabbit** |
| Calculated MW | **12580 Da** |

### eIF4EBP1 Antibody - Additional Information

| | |
|---|---|
| Dilution | **WB~~1:1000<br>IHC~~1:100~500<br>FC~~1:10~50<br>ICC~~N/A<br>IP~~N/A** |
| Purification | **Affinity-chromatography** |
| Immunogen | **A synthesized peptide derived from human eIF4EBP1** |
| Description | **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.** |
| Storage Condition and Buffer | **Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.** |

### eIF4EBP1 Antibody - Protein Information

**Name** EIF4EBP1

**Function**
Repressor of translation initiation that regulates EIF4E activity by preventing its assembly into the eIF4F complex: hypophosphorylated form competes with EIF4G1/EIF4G3 and strongly binds to

EIF4E, leading to repress translation. In contrast, hyperphosphorylated form dissociates from EIF4E, allowing interaction between EIF4G1/EIF4G3 and EIF4E, leading to initiation of translation. Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways.

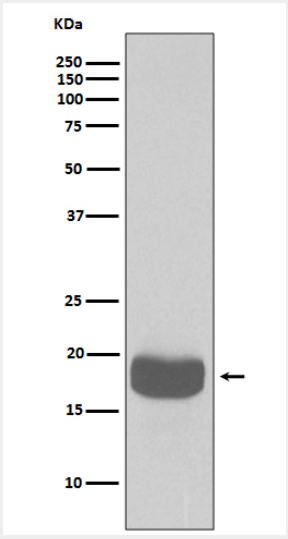
**Cellular Location**
Cytoplasm. Nucleus. Note=Localization to the nucleus is unaffected by phosphorylation status. {ECO:0000250|UniProtKB:Q60876}

## eIF4EBP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## eIF4EBP1 Antibody - Images




Western blot analysis of eIF4EBP1 expression in K562 cell lysate.