

**Anti-4EBP1 (pT69) Antibody**  
**Rabbit polyclonal antibody to 4EBP1 (pT69)**  
**Catalog # AP60456**

**Specification**

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**Anti-4EBP1 (pT69) Antibody - Product Information**

|                   |                                  |
|-------------------|----------------------------------|
| Application       | <b>WB</b>                        |
| Primary Accession | <a href="#">O13541</a>           |
| Other Accession   | <a href="#">O60876</a>           |
| Reactivity        | <b>Human, Mouse, Rat, Monkey</b> |
| Host              | <b>Rabbit</b>                    |
| Clonality         | <b>Polyclonal</b>                |
| Calculated MW     | <b>12580</b>                     |

**Anti-4EBP1 (pT69) Antibody - Additional Information**

**Gene ID** 1978

**Other Names**

EIF4EBP1; Eukaryotic translation initiation factor 4E-binding protein 1; 4E-BP1; eIF4E-binding protein 1; Phosphorylated heat- and acid-stable protein regulated by insulin 1; PHAS-I

**Target/Specificity**

Recognizes endogenous levels of 4EBP1 (pT69) protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-4EBP1 (pT69) 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**

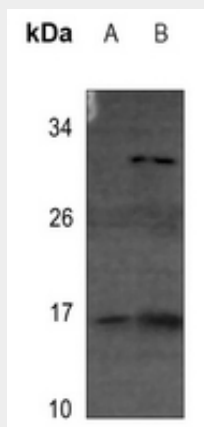
Cytoplasm. Nucleus. Note=Localization to the nucleus is unaffected by phosphorylation status.  
{ECO:0000250|UniProtKB:Q60876}

### Anti-4EBP1 (pT69) Antibody - Protocols

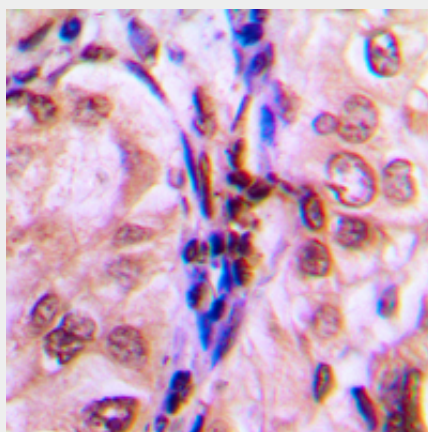
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-4EBP1 (pT69) Antibody - Images



Western blot analysis of 4EBP1 (pT69) expression in U2OS (A), DLD (B) whole cell lysates.



Immunohistochemical analysis of 4EBP1 (pT69) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). 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.

**Anti-4EBP1 (pT69) Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human 4EBP1 (pT69). The exact sequence is proprietary.