

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

Anti-4EBP1 (pT69) Antibody - Product Information

Application	WB, IHC
Primary Accession	Q13541
Other Accession	Q60876
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	12580

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

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

Dilution

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

IHC~~1:100~500

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.

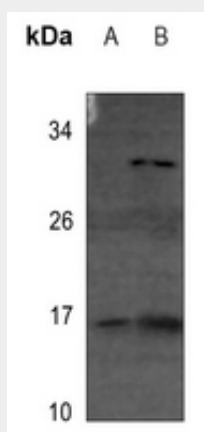
Cellular Location

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

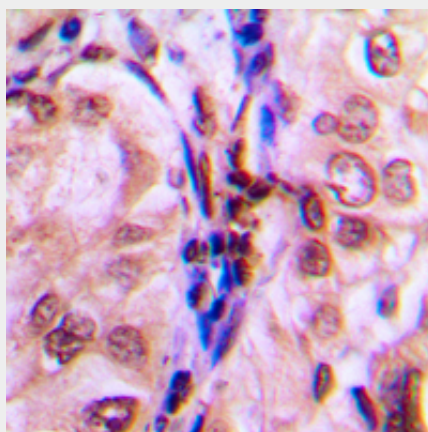
Anti-4EBP1 (pT69) Antibody - Protocols

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.