

EIF4EBP1 / 4EBP1 Antibody (aa101-118)
Rabbit Polyclonal Antibody
Catalog # ALS12946**Specification**

EIF4EBP1 / 4EBP1 Antibody (aa101-118) - Product Information

Application	IHC
Primary Accession	Q13541
Reactivity	Human, Mouse, Rat, Rabbit, Hamster
Host	Rabbit
Clonality	Polyclonal
Calculated MW	13kDa KDa

EIF4EBP1 / 4EBP1 Antibody (aa101-118) - Additional Information**Gene ID** 1978**Other Names**

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, EIF4EBP1

Target/Specificity

Detects multiple bands at 19-25 kD, corresponding to the apparent molecular mass of the various phosphorylation states of PHAS-I protein on SDS-PAGE immunoblots. This antibody provides a simple read-out for PKB (Akt) activity in vivo through the use ...

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. For maximum product recovery, after thawing, centrifuge the product vial before removing cap.

Precautions

EIF4EBP1 / 4EBP1 Antibody (aa101-118) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF4EBP1 / 4EBP1 Antibody (aa101-118) - 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.

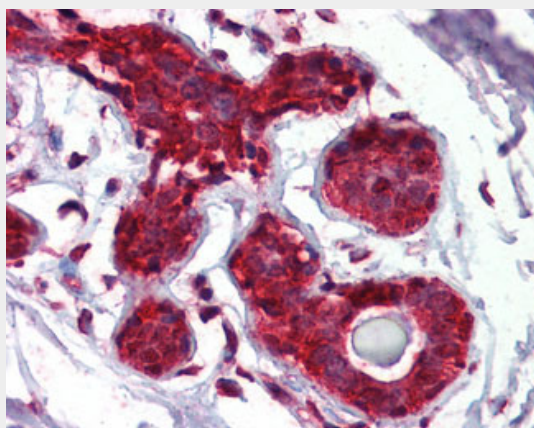
{ECO:0000250|UniProtKB:Q60876}

EIF4EBP1 / 4EBP1 Antibody (aa101-118) - Protocols

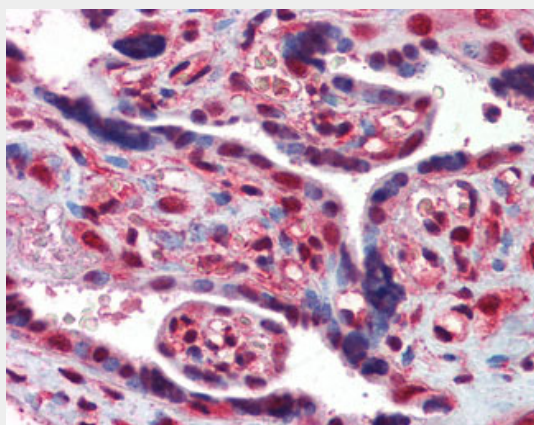
Provided below are standard protocols that you may find useful for product applications.

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

EIF4EBP1 / 4EBP1 Antibody (aa101-118) - Images



Anti-EIF4EBP1 / 4EBP1 antibody IHC of human breast.



Anti-EIF4EBP1 / 4EBP1 antibody IHC of human placenta.

EIF4EBP1 / 4EBP1 Antibody (aa101-118) - Background

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. Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways.

EIF4EBP1 / 4EBP1 Antibody (aa101-118) - References

Pause A.,et al.Nature 371:762-767(1994).

Ito M.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.

Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).