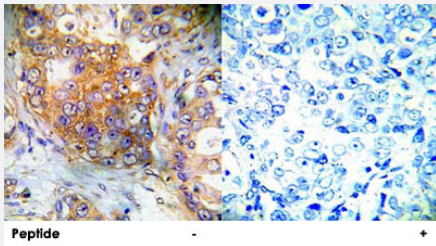


EIF4EBP1 polyclonal antibody

Catalog # PAB16982 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using EIF4EBP1 polyclonal antibody (Cat # PAB16982).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of EIF4EBP1.
Immunogen	A synthetic peptide corresponding to residues surrounding S65 of human EIF4EBP1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of total 4EBP1 protein.
Form	Liquid
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM PBS, 0.15 M NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using EIF4EBP1 polyclonal antibody (Cat # PAB16982).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — EIF4EBP1

Entrez GeneID [1978](#)

Protein Accession# [Q13541](#)

Gene Name EIF4EBP1

Gene Alias 4E-BP1, 4EBP1, BP-1, MGC4316, PHAS-I

Gene Description eukaryotic translation initiation factor 4E binding protein 1

Omim ID [602223](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq]

Other Designations eIF4E-binding protein 1|phosphorylated heat- and acid-stable protein regulated by insulin 1

Publication Reference

- [Activation of the p70 S6 kinase by all-trans-retinoic acid in acute promyelocytic leukemia cells.](#)

Lal L, Li Y, Smith J, Sassano A, Uddin S, Parmar S, Tallman MS, Minucci S, Hay N, Platanius LC.

Blood 2005 Feb; 105(4):1669.

- [Hierarchical phosphorylation of the translation inhibitor 4E-BP1.](#)

Gingras AC, Raught B, Gygi SP, Niedzwiecka A, Miron M, Burley SK, Polakiewicz RD, Wyslouch-Cieszyńska A, Aebersold R, Sonenberg N.

Genes & Development 2001 Nov; 15(21):2852.

Application: WB-Tr, Human, HEK 293T cells

- [Phosphorylation of the translational repressor PHAS-I by the mammalian target of rapamycin.](#)

Brunn GJ, Hudson CC, Sekulic A, Williams JM, Hosoi H, Houghton PJ, Lawrence JC Jr, Abraham RT.

Science 1997 Jul; 277(5322):99.

Application: WB-Tr, Human, HEK 293 cells

Pathway

- [Acute myeloid leukemia](#)
- [ErbB signaling pathway](#)
- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Genetic Predisposition to Disease](#)
- [Multiple System Atrophy](#)
- [Obesity](#)