

## Rabbit EIF4EBP1 Polyclonal Antibody | anti-EIF4EBP1 antibody

EIF4EBP1 Antibody (Center)

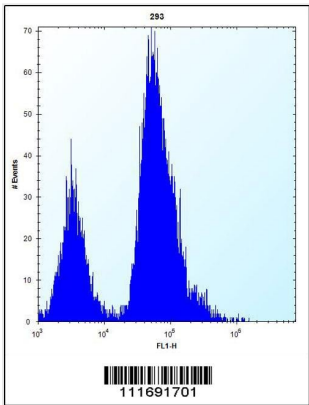
| CATALOG # | HOST   | REACTIVITY                                       | APPLICATIONS                                                                |
|-----------|--------|--------------------------------------------------|-----------------------------------------------------------------------------|
| AAA287600 | Rabbit | Human (Predicted Reactivity: Bovine, Mouse, Rat) | Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot |

### PRODUCT SYNONYMS

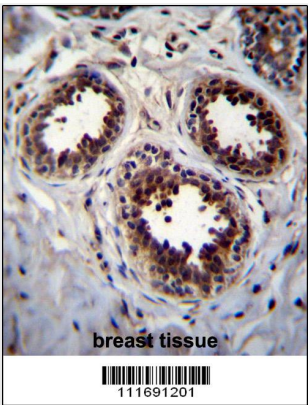
EIF4EBP1; Polyclonal Antibody; EIF4EBP1 Antibody (Center); Eukaryotic translation initiation factor 4E-binding protein 1; 4E-BP1; eIF4E-binding protein 1; Phosphorylated heat- and acid-stable protein regulated by insulin 1; PHAS-I; anti-EIF4EBP1 antibody

### PRODUCT SPECIFICATIONS

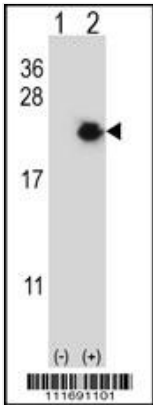
|                                                    |                                                                                                                                                                                           |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                                    |
| Reactivity                                         | Human (Predicted Reactivity: Bovine, Mouse, Rat)                                                                                                                                          |
| Clonality                                          | Polyclonal                                                                                                                                                                                |
| Isotype                                            | Rabbit Ig                                                                                                                                                                                 |
| Specificity                                        | This EIF4EBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31-61 amino acids from the Central region of human EIF4EBP1.                   |
| Purity/Purification                                | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Form/Format                                        | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Concentration                                      | Vial Concentration: 2 (varies by lot)                                                                                                                                                     |
| Sequence Positions                                 | 31-61                                                                                                                                                                                     |
| Sequence Length                                    | 118                                                                                                                                                                                       |
| Applicable Applications for anti-EIF4EBP1 antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                           |
| Antigen Type                                       | Synthetic Peptide                                                                                                                                                                         |
| Antigen Source                                     | HUMAN                                                                                                                                                                                     |
| Preparation and Storage                            | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |



**FCM/FACS (Flow Cytometry)**  
EIF4EBP1 Antibody (Center) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**IHC (Immunohiostchemistry)**  
EIF4EBP1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of EIF4EBP1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



**WB (Western Blot)**  
Western blot analysis of EIF4EBP1 (arrow) using rabbit polyclonal EIF4EBP1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the EIF4EBP1 gene.

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-EIF4EBP1 antibody | 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]. |
| Product Categories/Family for anti-EIF4EBP1 antibody   | Metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| References                                             | She, Q.B., et al. Cancer Cell 18(1):39-51(2010)<br>Aoyagi, M., et al. Proc. Natl. Acad. Sci. U.S.A. 107(6):2640-2645(2010)<br>Naukkarinen, J., et al. PLoS Genet. 6 (6), E1000976 (2010) :<br>Kumar, A., et al. PLoS ONE 5 (1), E8730 (2010) :<br>Villalonga, P., et al. J. Biol. Chem. 284(51):35287-35296(2009)                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| NCBI GI #                        | 4758258                                                       |
| NCBI GeneID                      | 1978                                                          |
| NCBI Accession #                 | NP_004086.1                                                   |
| NCBI GenBank Nucleotide #        | NM_004095.3                                                   |
| UniProt Accession #              | Q13541; Q6IBN3; B2R502; D3DSW8                                |
| Molecular Weight                 | 12580                                                         |
| NCBI Official Full Name          | eukaryotic translation initiation factor 4E-binding protein 1 |
| NCBI Official Synonym Full Names | eukaryotic translation initiation factor 4E binding protein 1 |
| NCBI Official Symbol             | EIF4EBP1                                                      |
| NCBI Official Synonym Symbols    | BP-1; 4EBP1; 4E-BP1; PHAS-I                                   |
| NCBI Protein Information         | eukaryotic translation initiation factor 4E-binding protein 1 |
| UniProt Protein Name             | Eukaryotic translation initiation factor 4E-binding protein 1 |
| UniProt Gene Name                | EIF4EBP1                                                      |
| UniProt Synonym Gene Names       | 4E-BP1; eIF4E-binding protein 1; PHAS-I                       |
| UniProt Entry Name               | 4EBP1_HUMAN                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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