

## 4E-BP1 Antibody | anti-4E-BP1 antibody

4E-BP1 (Ab-45) Antibody

|                               |                                        |                                                           |
|-------------------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA111165</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|----------------------------------------|-----------------------------------------------------------|

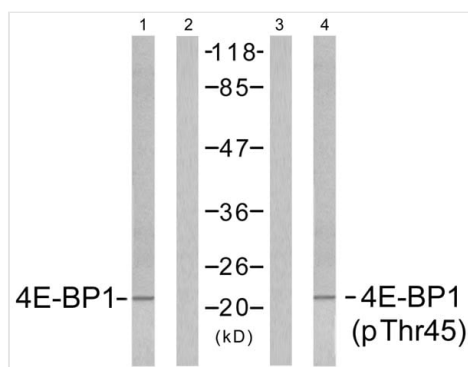
### PRODUCT SYNONYMS

4E-BP1; 4E-BP1 (Ab-45) Antibody; anti-4E-BP1 antibody

### PRODUCT SPECIFICATIONS

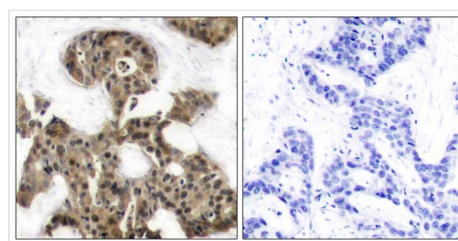
|                                                  |                                                                                                                                                           |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                       | Human, Mouse, Rat                                                                                                                                         |
| Specificity                                      | 4E-BP1 (Ab-45) antibody detects endogenous levels of total 4E-BP1 protein. This antibody may cross-react with 4E-BP2 and 4E-BP3.                          |
| Purity/Purification                              | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                      |
| Form/Format                                      | In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                            |
| Sequence Length                                  | 118                                                                                                                                                       |
| Applicable Applications for anti-4E-BP1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                             |
| Immunogen                                        | The antiserum was produced against synthesized non-phosphopeptide derived from human 4E-BP1 around the phosphorylation site of threonine 45 (S-T-TP-P-G). |
| Preparation and Storage                          | Store at -20 degree C for 1 year                                                                                                                          |

### IMAGES



#### WB (Western Blot)

Western blot analysis of extracts from MDA-MB-435 cells untreated or treated with EGF (200ng/ml, 5min), using 4E-BP1 (Ab-45) antibody and 4E-BP1 (phospho-Thr45) antibody.



#### IHC (Immunohistochemistry)

Peptide-+ Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using 4E-BP1 (Ab-45) antibody.

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Categories/Family for anti-4E-BP1 antibody | Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells                                                                   |
| References                                         | Gingras AC, et al. (1998) Genes Dev 12(4): 502-513. Brugarolas J, et al. (2004) Genes Dev 18(23): 2893-2904. Kumar V, et al. (2000) EMBO J 19(5): 1087-1097. Moody CA, et al. (2005) J Virol 79(9): 5499-5506. Burnett PE, et al. (1998) Proc Natl Acad Sci U S A 95(4): 1432-1437. |

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                 | 12,580 Da                                                     |
| 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                       |

**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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Online datasheet: <https://stage.aaabiotech.com/human-mouse-rat-antibody/4e-bp1/111165>