

4E-BP1(Phospho-Thr37) Antibody

Catalog No: #11222



Package Size: #11222-1 50ul #11222-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

| | |
|-----------------------|--|
| Product Name | 4E-BP1(Phospho-Thr37) Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Purification | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications | WB IHC |
| Species Reactivity | Human;Mouse;Rat |
| Specificity | The antibody detects endogenous level of 4E-BP1 only when phosphorylated at threonine 36. |
| Immunogen Type | Peptide-KLH |
| Immunogen Description | Peptide sequence around phosphorylation site of threonine 37(S-T-T(p)-P-G) derived from Human 4E-BP1. |
| Conjugates | Unconjugated |
| Target Name | 4E-BP1 |
| Modification | Phospho |
| Other Names | BP-1; 4EBP1; 4E-BP1; PHAS-I; |
| Accession No. | Swiss-Prot: Q13541; NCBI Gene ID: 1978; NCBI mRNA: NM_004095.3; NCBI Protein: NP_004086.1 |
| Calculated MW | 13 kDa |
| SDS-PAGE MW | 15-20 kDa |
| Concentration | 1.0mg/ml |
| Formulation | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C |

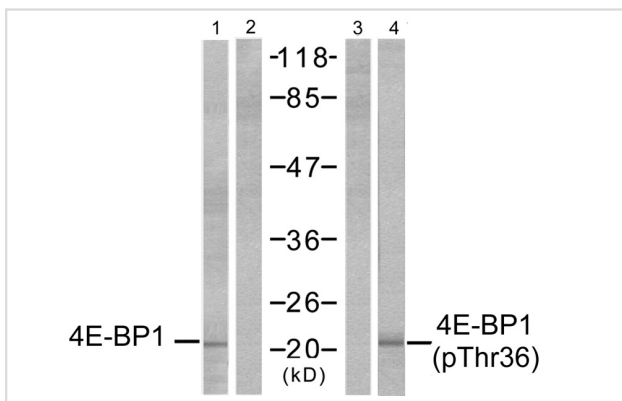
Application Details

Predicted MW: 18kd

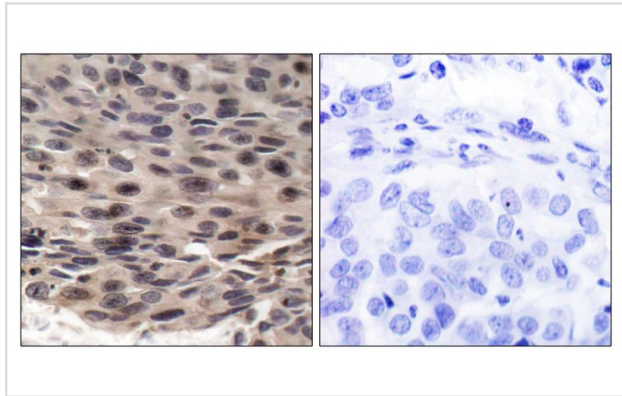
Western blotting : 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from MDA-MB-435 cells, untreated or EGF-treated (200 ng/ml, 30min), using 4E-BP1 (Ab-37) antibody (#21215, Lane 1 and 2) and 4E-BP1 (phospho-Thr37) antibody (#11222, Lane 3 and 4).



Immunohistochemical analysis of paraffin-embedded human breast carcinoma, using 4E-BP1 (phospho-Thr36) antibody (#11222).

Background

Regulates eIF4E activity by preventing its assembly into the eIF4F complex. Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways.

Published Papers

Yuanfan Chen; Jiaying Liu; Shaowen Zhong; Tianwu Zhang; Jin Yuan; Jing Zhang; Ying Chen; Jian Liang; Yonger Chen; Shaozhen Hou; Haiyang Huang; Jie Gao et al., Monotropein inhibits epithelial-mesenchymal transition in chronic colitis via the mTOR/P70S6K pathway., (2025)

[PMID:40041493](https://pubmed.ncbi.nlm.nih.gov/40041493/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.