
Product Name: Phospho-4E BP1 (Thr37) Rabbit Polyclonal Antibody**Catalog #: APRab00918**

For research use only.

Summary

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|----------------------|--|
| Description | Rabbit polyclonal Antibody |
| Host | Rabbit |
| Application | WB,IHC |
| Reactivity | Human,Mouse,Rat |
| Conjugation | Unconjugated |
| Modification | Phosphorylated |
| Isotype | IgG |
| Clonality | Polyclonal |
| Form | Liquid |
| Concentration | 1mg/ml |
| Storage | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| Shipping | Ice bags |
| Buffer | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3. |
| Purification | Affinity Purification |

Application

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|-------------------------|--|
| Dilution Ratio | WB 1:500-1:1000,IHC 1:50-1:100 |
| Molecular Weight | Calculated MW: 13 kDa; Observed MW: 18 kDa |

Antigen Information

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|--------------------------|---|
| Gene Name | EIF4EBP1 |
| Alternative Names | EIF4EBP1; 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 |
| Gene ID | 1978 |
| SwissProt ID | Q13541 |
| Immunogen | A synthetic Phosphorylated peptide corresponding to residues target protein |

Background

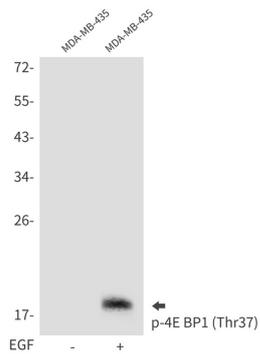
Translation repressor protein 4E-BP1 (also known as PHAS-1) inhibits cap-dependent translation by binding to the translation

initiation factor eIF4E. Hyperphosphorylation of 4E-BP1 disrupts this interaction and results in activation of cap-dependent translation. Both the PI3 kinase/Akt pathway and FRAP/mTOR kinase regulate 4E-BP1 activity.

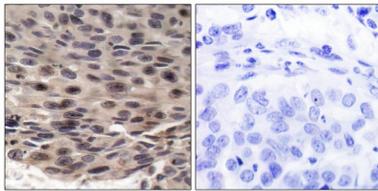
Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blot analysis of Phospho-4E BP1 (Thr37) in MDAMB435 lysates using Phospho-4E BP1 (Thr37) antibody.



Immunohistochemistry analysis of paraffin-embedded Human breast carcinoma, using 4EBP1 (Phospho-Thr36) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval. Sample with blocking peptide on the right.