
Product Name: 4E BP1 Rabbit Polyclonal Antibody**Catalog #: APRab03630**

For research use only.

Summary

| | |
|----------------------|--|
| Description | Rabbit polyclonal Antibody |
| Host | Rabbit |
| Application | WB,IP |
| Reactivity | Human,Mouse,Rat |
| Conjugation | Unconjugated |
| Modification | Unmodified |
| 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

| | |
|-------------------------|---|
| Dilution Ratio | WB 1:500-1:1000,IP 1:20-1:50 |
| Molecular Weight | Calculated MW: 13 kDa; Observed MW: 15-20 kDa |

Antigen Information

| | |
|--------------------------|---|
| 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 peptide corresponding to target protein |

Background

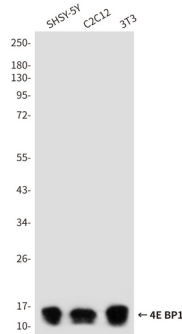
Translation repressor protein 4E-BP1 (also known as PHAS-1) inhibits cap-dependent translation by binding to the translation

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.

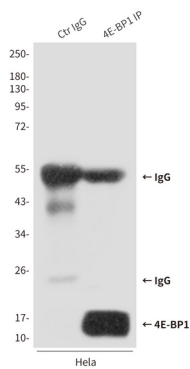
Research Area

Epigenetics and Nuclear Signaling

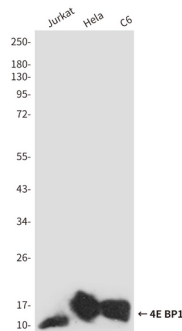
Image Data



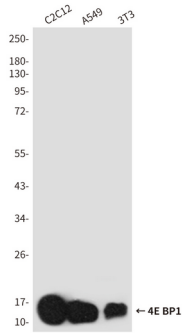
Western blot analysis of 4EBP1 in SH-SY5Y, C2C12 and 3T3 lysates using 4EBP1 antibody.



Immunoprecipitation analysis of 4E BP1 in HeLa lysates using 4EBP1 antibody.



Western blot analysis of 4E BP1 in Jurkat, HeLa and C6 lysates using 4EBP1 antibody.



Western blot analysis of 4E BP1 in C2C12, A549 and 3T3 lysates using 4E BP1 antibody