

Product datasheet for AP20713PU-N

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

EIF4EBP1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500 - 1/1000.

Immunohistochemistry on paraffin sections: 1/50 - 1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Synthetic peptide, corresponding to the N-terminal of Human 4E-BP1.

Specificity: This antibody detects endogenous levels of 4E-BP1 protein.

(region surrounding Pro30)

Formulation: Phosphate buffered saline (PBS), pH 7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% by SDS-PAGE)

Preservative: 0.05% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity-chromatography using epitope-specific immunogen

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 15 to 20 kDa

Gene Name: eukaryotic translation initiation factor 4E binding protein 1

Database Link: Entrez Gene 13685 MouseEntrez Gene 116636 RatEntrez Gene 1978 Human

Q13541



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Background:

The translation of proteins from eukaryotic mRNA is initiated by the multisubunit complex eIF-4F, which associates with the mRNA 5' cap structure. eIF-4E, a component of eIF-4F, is responsible for binding to the 5' cap structure and for the assembly of the eIF-4F complex. The regulatory protein 4E-BP1, also referred to as PHAS-I, inhibits eIF-4E function. Phosphorylation of 4E-BP1 by S6 kinase p70, MAP kinases or PKCs causes the disassociation

of 4E-BP1 from eIF-4E, promoting translation. A protein that is functionally related to 4E-BP1,

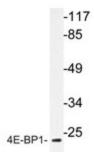
designated 4E-BP2, also associates with eIF-4E.

Synonyms: PHAS-I, PHAS-1, PHAS1

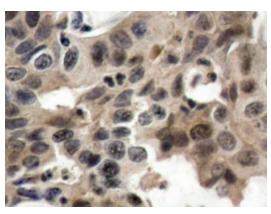
Protein Pathways: Acute myeloid leukemia, ErbB signaling pathway, Insulin signaling pathway, mTOR signaling

pathway

Product images:



Western blot analyzes of 4E-BP1 antibody in extracts from MDA-MB-435 cells.



Immunohistochemistry analyzes of 4E-BP1 antibody in paraffin-embedded human breast carcinoma tissue.