

Product datasheet for AP20834PU-M

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OriGene Technologies, Inc.

EIF4EBP1 pThr37 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

Specificity: This antibody detects endogenous levels of 4E-BP1 protein only when phosphorylated at

Thr37.

Formulation: Phosphate buffered saline (PBS), pH 7.2.

State: Aff - Purified

State: Liquid purified Ig fraction Preservative: 0.05% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity chromatography (> 95% (by SDS-PAGE)

Conjugation: Unconjugated

Storage: Store the antibody 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



EIF4EBP1 pThr37 Rabbit Polyclonal Antibody - AP20834PU-M

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,

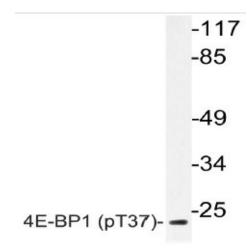
designated 4E-BP2, also associates with eIF-4E.

Synonyms: PHAS-I, PHAS-1, PHAS1

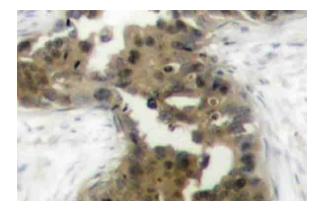
Protein Pathways: Acute myeloid leukemia, ErbB signaling pathway, Insulin signaling pathway, mTOR signaling

pathway

Product images:



Western blot (WB) analyzes of p-4E-BP1 (pThr37) antibody (Cat.-No.: [AP20834PU-N]) in extracts from MDA-MB-435 EGF cells.



Immunohistochemistry (IHC) analyzes of p-4E-BP1 (pThr37) antibody (Cat.-No.: [AP20834PU-N]) in paraffin-embedded human breast carcinoma tissue.