

Datasheet for ABIN6990540
anti-eIF4EBP1 antibody (C-Term)



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Overview

Quantity:	0.1 mg
Target:	eIF4EBP1 (EIF4EBP1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This eIF4EBP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	4E-BP1 antibody was raised against a 14 amino acid synthetic peptide from near the carboxy terminus of human 4E-BP1. The immunogen is located within the last 50 amino acids of 4E-BP1.
Isotype:	IgG
Purification:	4E-BP1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	eIF4EBP1 (EIF4EBP1)
Alternative Name:	4E-BP1 (EIF4EBP1 Products)
Background:	4E-BP1 Antibody: The translation of mRNA in eukaryotic cells is regulated by the presence of amino acids through multiple mechanisms. One such mechanism involves the evolutionarily

Target Details

conserved serine/threonine kinase TOR (Target of rapamycin, also known as mTOR), which regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors. One downstream target of TOR is the eukaryotic initiation factor 4E binding protein 1 (4E-BP1) whose phosphorylation prevents its association with eIF4E, preferentially stimulating translation of mRNAs containing long, highly structured 5'-UTRs. Rapamycin inhibits TOR resulting in reduced cell growth and reduced rates of cell cycle and cell proliferation, at least in part by inhibiting the activity of TOR towards 4E-BP1.

Gene ID: 1978

NCBI Accession: [NP_004086](#)

UniProt: [Q13541](#)

Pathways: [MAPK Signaling](#), [PI3K-Akt Signaling](#), [RTK Signaling](#), [AMPK Signaling](#), [Regulation of Cell Size](#), [BCR Signaling](#)

Application Details

Application Notes: 4E-BP1 antibody can be used for the detection of 4E-BP1 by Western blot at 2.5 - 10 µg/mL. Antibody can also be used for immunocytochemistry starting at 2 µg/mL. For immunofluorescence start at 20 µg/mL.

Antibody validated: Western Blot in mouse samples, Immunocytochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: 4E-BP1 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: 4E-BP1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As

with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.