Anti-Phospho-4E-BP1/2/3 (Thr46/Thr46/Thr32) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015924

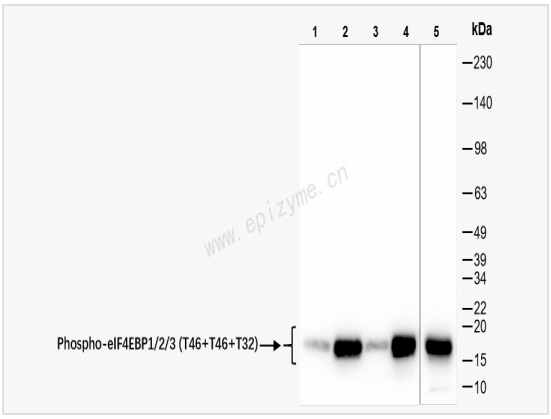
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	77D30C09
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-eIF4EBP1/2/3 (T46+T46+T32)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-4E-BP1/2/3 (Thr46/Thr46/Thr32) Rabbit mAb [77D30C09] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	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; EIF4EBP1; Eukaryotic translation initiation factor 4E-binding protein 2; 4E-BP2; eIF4E-binding protein 2; EIF4EBP2; Eukaryotic translation initiation factor 4E-binding protein 3; 4E-BP3; eIF4E-binding protein 3; EIF4EBP3.
Calculated MW	Calculated MW: 11,13 kDa; Observed MW: 13-19 kDa
Uniprot ID	Q13541, Q13542, O60516
Gene ID	1978, 8890, 64222
Background	4E-BP1: This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq, Jul 2008] 4E-BP2: Eukaryotic initiation factor 2B (EIF2B), which is necessary for protein synthesis, is a GTP exchange factor composed of five different subunits. The protein encoded by this gene is the fourth, or delta, subunit. Defects in this gene are a cause of leukoencephalopathy with vanishing white matter (VWM) and ovarioleukodystrophy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] 4E-BP3: Enables ATP hydrolysis activity. Located in endoplasmic reticulum lumen. [provided by Alliance of Genome Resources, Jul 2025]

Validation Images



Western Blot - Anti-Phospho-4E-BP1/2/3 (Thr46/Thr46/Thr32) Rabbit mAb [77D30C09]
All lanes: R015924 at 1:1,000 dilution
Lane 1: Ball-1 (Human B lymphocyte acute leukemia cell) whole cell lysates
Lane 2: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 3: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 4: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates
Lane 5: Mouse spleen whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 11,13 kDa
Observed band size: 13-19 kDa
Developed using the ECL technique (Cat. No. SQ201).