SignalChem
Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

Catalogue #	Aliquot Size
E35-563R-100	100 µg

Anti-4EBP1

Rabbit Polyclonal Antibody

Catalog # E35-563R
Lot # O2109-38

Cited Applications
WB, ELISA, ICC

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity
Recognizes the 4EBP1protein

Cross Reactivity
Human and Mouse

Host/Isotype/Clone#
Rabbit, IgG

Immunogen
4EBP1 antibody was raised against a 14 amino acid synthetic peptide from near the carboxy terminus of human 4EBP1

Formulation
PBS + 0.02% sodium azide

Stability
1yr at –20°C from date of shipment

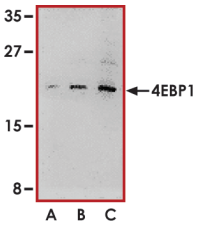
Scientific Background

4EBP1 is a member of a family of translation repressor proteins that directly interact with eukaryotic translation initiation factor 4E (EIF4E). Interaction of 4EBP1 with EIF4E inhibits the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs thereby leading to repression of translation. Insulin treatment of adipose cells increases the phosphorylation of 4EBP1 and leads to reduced interaction of 4EBP1 with EIF4E (1). 4EBP1 is expressed in most tissues, with highest levels seen in adipose tissue, pancreas, and skeletal muscle (2).

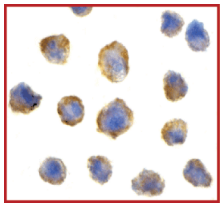
References

1. Pause, A. et al: Insulin-dependent stimulation of protein synthesis by phosphorylation of a regulator of 5-prime-cap function. Nature 371: 762-767, 1994.
2. Tsukiyama-Kohara, K. et al: Tissue distribution, genomic structure, and chromosome mapping of mouse and human eukaryotic initiation factor 4E-binding proteins 1 and 2. Genomics 38: 353-363, 1996.

Sample Data



Western blot analysis of 4EBP1 in 3T3 cell lysate with 4EBP1 antibody at (A) 2.5, (B) 5 and (C) 10 ug/ml.



Immunocytochemistry of 4EBP1in 3T3 cells with 4EBP1 antibody at 2 ug/ml.

Anti-4EBP1

Rabbit Polyclonal Antibody

Catalog Number	E35-563R
Specific Lot Number	O2109-38
Purification	Affinity chromatography
Stability	1yr at –20°C from date of shipment
Storage & Shipping	Store product at –20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
www.signalchem.com

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