Datasheet for ABIN6699822

eIF4EBP1 Protein (His tag)

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Overview

Quantity:	20 µg
Target:	eIF4EBP1 (EIF4EBP1)
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This eIF4EBP1 protein is labelled with His tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	4EBP1 recombinant protein-HIS Epitope
Purification:	Recombinant full-length human 4EBP1 Protein was expressed in Sf9 insect cells using an N-terminal his epitope. The purity was determined to be >85% by densitometry.
Purity:	>85%

Target Details

Target:	eIF4EBP1 (EIF4EBP1)
Alternative Name:	EIF4EBP1 (EIF4EBP1 Products)
Background:	Synonyms: BP-1, EIF4EBP1, PHAS-I, MGC4316, Eukaryotic translation initiation factor 4E-binding protein 1, 4E-BP1, eIF4E-binding protein 1, Phosphorylated heat- and acid-stable protein regulated by insulin 1 Background: 4EBP1 is a member of a family of translation repressor proteins that directly

Target Details

	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). 4EBP1 Protein is ideal for investigators involved in Signaling Reagents, Protein Substrates, AKT/PKB Pathway, Angiogenesis, Cancer, and Metabolic Disorder research.
NCBI Accession:	NM_004095
Pathways:	MAPK Signaling, PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, Regulation of Cell Size, BCR Signaling

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: 4EBP1 Protein is suitable for use in Western Blot. Expect a band approximately ~ 18 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.2 µg/µL
Buffer:	4EBP1 Protein is stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiry Date:	12 months