

Datasheet for ABIN6699818  
**eIF4EBP1 Protein (GST tag)**



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## Overview

Quantity:	20 µg
Target:	eIF4EBP1 (EIF4EBP1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This eIF4EBP1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

## Product Details

Purpose:	4EBP1 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human 4EBP1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >75% by densitometry.
Purity:	>75%

## Target Details

Target:	eIF4EBP1 (EIF4EBP1)
Alternative Name:	EIF4EBP1 ( <a href="#">EIF4EBP1 Products</a> )
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

## Target Details

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 multi-subunit 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:	<a href="#">NM_004095</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">PI3K-Akt Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">BCR Signaling</a>

## Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: 4EBP1 Protein is suitable for use in Western Blot. Expect a band approximately ~ 19 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 Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 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