Datasheet for ABIN7318423

eIF4EBP1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	eIF4EBP1 (EIF4EBP1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This eIF4EBP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human 4E-BP1/EIF4EBP1 Protein (His Tag)
Sequence:	Met 1-Ile118
Characteristics:	Recombinant Human Eukaryotic Translation Initiation Factor 4E-Binding Protein 1 is produced by our E.coli expression system and the target gene encoding Met1-Ile118 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	eIF4EBP1 (EIF4EBP1)
Alternative Name:	4E-BP1/EIF4EBP1 (EIF4EBP1 Products)
Background:	Background: Eukaryotic Translation Initiation Factor 4E-Binding Protein 1 (4EBP1) is a number of the eIF4E-binding protein family. 4EBP1 regulates eIF4E activity by preventing its assembly

Target Details

	into the eIF4F complex. 4EBP1 mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways. Non-phosphorylated 4EBP1 competes with EIF4G1/EIF4G3 to interact with EIF4E. 4EBP1 is phosphorylated in response to various signals including insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. 4EBP1 has a role in progression of breast neoplasms through cell signaling. Synonym: 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, EIF4EBP1,4E-BP1,4EBP1,BP-1
Molecular Weight:	14.7 kDa
UniProt:	Q13541
Pathways:	MAPK Signaling, PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, Regulation of Cell Size, BCR Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.