Datasheet for ABIN6699816

EIF4E Protein (GST tag)

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Overview

Quantity:	20 µg
Target:	EIF4E
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF4E protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	EIF4E recombinant protein GST fusion protein
Purification:	Recombinant full-length human EIF4E was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry.
Purity:	>85%

Target Details

Target:	EIF4E
Alternative Name:	EIF4E (EIF4E Products)
Background:	Synonyms: CBP, EIF4F, EIF4E1, EIF4EL1, MGC111573, Eukaryotic translation initiation factor 4E, eIF-4F 25 kDa subunit, mRNA cap-binding protein Background: Eukaryotic Translation Initiation Factor 4E (EIF4E), plays a role in translation

Target Details

	initiation where it binds the 5 m7G cap found on mRNAs. EIF4E governs cell cycle progression and cellular proliferation by coordinately the expression of several genes at the post-transcriptional level. EIF4E functions as a central node of an RNA regulon, which plays an essential role in normal differentiation and development (1). The significant association of EIF4E with VEGF and cyclin D1 in multiple tumors supports a role for EIF4E in translational regulation of proteins related to angiogenesis and growth. The overexpression of EIF4E is involved in the malignant progression of human breast cancer (2). EIF4E Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Angiogenesis, Cancer, Cell Cycle, Cellular Stress, ERK/MAPK Pathway, Inflammation, and Neurobiology research.
NCBI Accession:	NM_001968
Pathways:	BCR Signaling

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Other: Kinase Assay-User Optimized Application_Note: EIF4E Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~ 51 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:	EIF4E Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 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