Recombinant Mouse Eif4ebp2 Protein, Myc/DDK-tagged

Cat. No. Eif4ebp2-2788M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length eukaryotic translation initiation factor 4E binding protein 2 (Eif4ebp2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Repressor of translation initiation involved in synaptic plasticity, learning and memory formation. Regulates EIF4E activity by preventing its assembly into the eIF4F complex: hypophosphorylated form of EIF4EBP2 competes with EIF4G1/EIF4G3 and strongly binds to EIF4E, leading to repress translation. In contrast, hyperphosphorylated form dissociates from EIF4E, allowing interaction between EIF4G1/EIF4G3 and EIF4E, leading to initiation of translation. EIF4EBP2 is enriched in brain and acts as a regulator of synapse activity and neuronal stem cell renewal via its ability to repress translation initiation. Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways.
Molecular Mass	12.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Eif4ebp2 eukaryotic translation initiation factor 4E binding protein 2 [Mus musculus (house mouse)]
Official Symbol	Eif4ebp2
Synonyms	EIF4EBP2; eukaryotic translation initiation factor 4E binding protein 2; eukaryotic translation initiation factor 4E-binding protein 2; eIF4E-binding protein 2; phosphorylated heat- and acid-stable protein regulated by insulin 2; 4E-BP2; PHAS-II; AA792569; BC010348; 2810011I19Rik; MGC141219
Gene ID	13688
mRNA Refseq	NM_010124
Protein Refseq	NP_034254
UniProt ID	P70445

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA