

Recombinant Human EIF4EBP2 Protein (1-120 aa), His-tagged

Cat. No. EIF4EBP2-1386H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EIF4EBP2 Protein (1-120 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Transcription. Protein Description: Full Length.
Species	Human
Source	Yeast
ProteinLength	1-120 aa
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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	14.9 kDa

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AA Sequence	MSSSAGSGHQPSQSRAIPTRTVAISDAAQLPHDYCTTPGGTLFSTTPGGTRIYYDRK FLLDRRNSPMAQTTPCHLPNIPGVTSPGTLIEDSKVEVNNLNNLNNHDKHAVGDD AQFEMDI
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	EIF4EBP2 eukaryotic translation initiation factor 4E binding protein 2 [Homo sapiens]
Official Symbol	EIF4EBP2
Synonyms	EIF4EBP2; 4E-BP2; 4EBP2; PHASII;
Gene ID	1979
mRNA Refseq	NM_004096
Protein Refseq	NP_004087

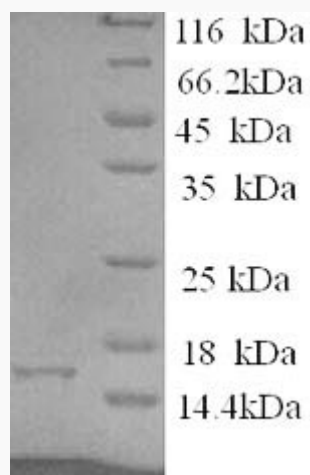
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MIM 602224

UniProt ID Q13542



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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