

Recombinant Human EIF4EBP1 293 Cell Lysate

Cat. No. EIF4EBP1-6649HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for eukaryotic translation initiation factor 4E binding protein 1 (EIF4EBP1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	EIF4EBP1 eukaryotic translation initiation factor 4E binding protein 1 [Homo sapiens]
Official Symbol	EIF4EBP1
Synonyms	EIF4EBP1; eukaryotic translation initiation factor 4E binding protein 1; eukaryotic translation initiation factor 4E-binding protein 1; 4E BP1; PHAS I; phosphorylated heat and acid stable protein regulated by insulin 1; eIF4E-binding protein 1; phosphorylated heat- and acid-stable protein regulated by insulin 1; BP-1; 4EBP1; 4E-BP1; PHAS-I; MGC4316;
Gene ID	1978
mRNA Refseq	NM_004095
Protein Refseq	NP_004086
MIM	602223
UniProt ID	Q13541
Chromosome Location	8p12
Pathway	AMPK signaling, organism-specific biosystem; Activation of the mRNA upon binding

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of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem;

Function

eukaryotic initiation factor 4E binding; protein binding;

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