

EIF4EBP1 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM01856

Basic Information

Catalog No.

RM01856

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

EIF4EBP1

Species

Human

Gene ID

1978

Swiss Prot

Q13541

Synonyms

4E-BP1; 4EBP1; BP-1; PHAS-I

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Background

This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq, Jul 2008]

Product Information

Description

EIF4EBP1 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:116bp deletion in exon2

Allele-2:117bp deletion in exon2

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging

1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions

4°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

Protocol

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

WT GGAAATTCCTGATG*****CAATAGCCCAGAAG
Mut GGAAATTCCTGATG***Deletion***CAATAGCCCAGAAG
Allele-1: 116bp deletion in exon2

WT CGGAAATTCCTGAT*****CAATAGCCCAGAAG
Mut CGGAAATTCCTGAT***Deletion***CAATAGCCCAGAAG
Allele-2: 117bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and EIF4EBP1 Knockdown (KD) HeLa cells, using sanger sequencing.