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EIF4EBP1 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM01877

Basic Information

Catalog No.
RM01877

Category
Cell Line

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

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Store at -20℃

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

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.