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ELAVL1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01820

Basic Information

Catalog No.
RM01820

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene is a member of the ELAVL family of RNA-binding proteins that contain several RNA recognition motifs, and selectively bind AU-rich elements (AREs) found in the 3' untranslated regions of mRNAs. AREs signal degradation of mRNAs as a means to regulate gene expression, thus by binding AREs, the ELAVL family of proteins play a role in stabilizing ARE-containing mRNAs. This gene has been implicated in a variety of biological processes and has been linked to a number of diseases, including cancer. It is highly expressed in many cancers, and could be potentially useful in cancer diagnosis, prognosis, and therapy. [provided by RefSeq, Sep 2012]

Gene Information

Gene Symbol
ELAVL1

Species
Human

Gene ID
1994

Swiss Prot
Q15717

Synonyms
ELAV1; HUR; Hua; MelG

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Product Information

Description
ELAVL1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:65bp deletion in exon1
Allele-2:65bp deletion in exon1
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
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

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.

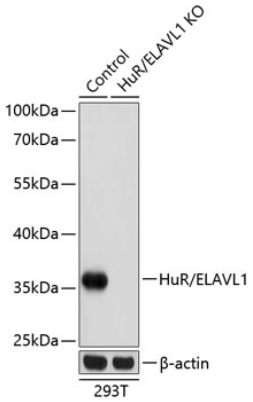
Sequencing data

WT ATGGCCGAAGACTG**********AGTTACGAAGCCTG
Mut ATGGCCGAAGACTG***Deletion***AGTTACGAAGCCTG
Allele-1: 65bp deletion in exon1

WT ATGGCCGAAGACTG**********AGTTACGAAGCCTG
Mut ATGGCCGAAGACTG***Deletion***AGTTACGAAGCCTG
Allele-2: 65bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and ELAVL1 knockout (KO) 293T cells, using sanger sequencing.

WB data



Western blot analysis of extracts from parental (Control) and ELAVL1 knockout (KO) 293T cells, using ELAVL1 antibody at 1:1000 dilution.