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DVL1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01934

Basic Information

Catalog No.
RM01934

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
DVL1

Species
Human

Gene ID
1855

Swiss Prot
O14640

Synonyms
DRS2; DVL; DVL1L1; DVL1P1

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Background

DVL1, the human homolog of the Drosophila dishevelled gene (dsh) encodes a cytoplasmic phosphoprotein that regulates cell proliferation, acting as a transducer molecule for developmental processes, including segmentation and neuroblast specification. DVL1 is a candidate gene for neuroblastomatous transformation. The Schwartz-Jampel syndrome and Charcot-Marie-Tooth disease type 2A have been mapped to the same region as DVL1. The phenotypes of these diseases may be consistent with defects which might be expected from aberrant expression of a DVL gene during development. [provided by RefSeq, Jul 2008]

Product Information

Description
DVL1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:49bp deletion in exon1
Allele-2:49bp 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
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

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WT    CCGTGGCCCCCGAG**************ACGCCTACAAATTC
Mut   CCGTGGCCCCCGAG***Deletion***ACGCCTACAAATTC
Allele-1：49bp deletion in exon1

WT    CCGTGGCCCCCGAG**************ACGCCTACAAATTC
Mut   CCGTGGCCCCCGAG***Deletion***ACGCCTACAAATTC
Allele-2：49bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and DVL1 knockout (KO) 293T cells, using sanger sequencing.