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LRP6 Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM01948

Basic Information

Catalog No.
RM01948

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

This gene encodes a member of the low density lipoprotein (LDL) receptor gene family. LDL receptors are transmembrane cell surface proteins involved in receptor-mediated endocytosis of lipoprotein and protein ligands. The protein encoded by this gene functions as a receptor or, with Frizzled, a co-receptor for Wnt and thereby transmits the canonical Wnt/beta-catenin signaling cascade. Through its interaction with the Wnt/beta-catenin signaling cascade this gene plays a role in the regulation of cell differentiation, proliferation, and migration and the development of many cancer types. This protein undergoes gamma-secretase dependent RIP- (regulated intramembrane proteolysis) processing but the precise locations of the cleavage sites have not been determined.[provided by RefSeq, Dec 2009]

Gene Information

Gene Symbol
LRP6

Species
Human

Gene ID
4040

Swiss Prot
O75581

Synonyms
ADCAD2; STHAG7

Product Information

Description
LRP6 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:201bp deletion in exon2
Allele-2:199bp 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
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.

Contact

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Sequencing data

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WT    AGACGGGACTTGCG**************GCTGGCATGTGATT
Mut   AGACGGGACTTGCG***Deletion***GCTGGCATGTGATT
Allele-1:    201bp deletion in exon2

WT    CAGACGGGACTTGC**************TGGGCTGGCATGTG
Mut   CAGACGGGACTTGC***Deletion***TGGGCTGGCATGTG
Allele-2:    199bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and LRP6 Knockdown (KD) 293T cells, using sanger sequencing.