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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**
1~5x$10^6$ 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.

## Contact


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## Sequencing data

```
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
```

Genome sequence analysis of PCR products from parental (WT) and LRP6 Knockdown (KD) 293T cells, using sanger sequencing.