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VANGL2 Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM02217

Basic Information

Catalog No.
RM02217

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

The protein encoded by this gene is a membrane protein involved in the regulation of planar cell polarity, especially in the stereociliary bundles of the cochlea. The encoded protein transmits directional signals to individual cells or groups of cells in epithelial sheets. This protein is also involved in the development of the neural plate. [provided by RefSeq, Sep 2011]

Gene Information

Gene Symbol
VANGL2

Species
Human

Gene ID
57216

Swiss Prot
Q9ULK5

Synonyms
LPP1; LTAP; STB1; STBM; STBM1

Product Information

Description
VANGL2 Knockdown 293T cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:49bp deletion in exon2
Allele-2:28bp 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

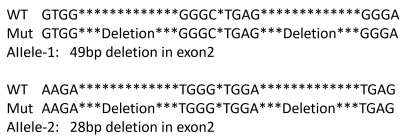
Storage
Store at -20℃

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.

Contact

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Sequencing data



Genome sequence analysis of PCR products from parental (WT) and VANGL2 Knockdown (KD) 293T cells, using sanger sequencing.