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IGF1R Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM01955

Basic Information

Catalog No.
RM01955

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014]

Gene Information

Gene Symbol
IGF1R

Species
Human

Gene ID
3480

Swiss Prot
P08069

Synonyms
CD221; IGFIR; IGFR; JTK13

Product Information

Description
IGF1R Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:123bp deletion in exon2
Allele-2:124bp 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

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WT    GCGGGCCAGGCATC**********ACGGTCATTACCGA
Mut   GCGGGCCAGGCATC***Deletion***ACGGTCATTACCGA
Allele-1:   123bp deletion in exon2

WT    TCTGCGGGCCAGGC**********TCACGGTCATTACC
Mut   TCTGCGGGCCAGGC***Deletion***TCACGGTCATTACC
Allele-2:   124bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and IGF1R Knockdown (KD) 293T cells, using sanger sequencing.