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KISS1R Knockout 293T Cell Line, Homozygous

Catalog No.: RM02438

Basic Information

Catalog No.
RM02438

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
KISS1R

Species
Human

Gene ID
84634

Swiss Prot
Q969F8

Synonyms
AXOR12; CPPB1; GPR54; HH8; HOT7T175; KISS-1R

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

The protein encoded by this gene is a galanin-like G protein-coupled receptor that binds metastin, a peptide encoded by the metastasis suppressor gene KISS1. The tissue distribution of the expressed gene suggests that it is involved in the regulation of endocrine function, and this is supported by the finding that this gene appears to play a role in the onset of puberty. Mutations in this gene have been associated with hypogonadotropic hypogonadism and central precocious puberty. [provided by RefSeq, Jul 2008]

Product Information

Description
KISS1R Knockout 293T Cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:230bp deletion in exon2
Allele-2:230bp 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.

Sequencing data

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WT    GCTGGTCACTCGGA**************GCAGGAGGGGAGAG
Mut   GCTGGTCACTCGGA***Deletion***GCAGGAGGGGAGAG
Allele-1: 230bp deletion in exon2
WT    AAAATGGTCCAGGT**************GCAGGAGGGGAGAG
Mut   AAAATGGTCCAGGT***Deletion***GCAGGAGGGGAGAG
Allele-2: 230bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and KISS1R knockout (KO) 293T cells, using sanger sequencing.

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