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GRK2 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02215

Basic Information

Catalog No.
RM02215

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

The product of this gene phosphorylates the beta-2-adrenergic receptor and appears to mediate agonist-specific desensitization observed at high agonist concentrations. This protein is an ubiquitous cytosolic enzyme that specifically phosphorylates the activated form of the beta-adrenergic and related G-protein-coupled receptors. Abnormal coupling of beta-adrenergic receptor to G protein is involved in the pathogenesis of the failing heart. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
GRK2

Species
Human

Gene ID
156

Swiss Prot
P25098

Synonyms
ADRBK1; BARK1; BETA-ARK1

Product Information

Description
GRK2 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:exon2 was deleted
Allele-2:exon2 was deleted
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    CCCCTGACCCACAG**************GACTTAACTTCTTG
Mut   CCCCTGACCCACAG***Deletion***GACTTAACTTCTTG
Allele-1: exon2 was deleted

WT    CCCCTGACCCACAG**************GACTTAACTTCTTG
Mut   CCCCTGACCCACAG***Deletion***GACTTAACTTCTTG
Allele-2: exon2 was deleted
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Genome sequence analysis of PCR products from parental (WT) and GRK2 knockout (KO) HeLa cells, using sanger sequencing.