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AURKB Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM02448

Basic Information

Catalog No.
RM02448

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

This gene encodes a member of the aurora kinase subfamily of serine/threonine kinases. The genes encoding the other two members of this subfamily are located on chromosomes 19 and 20. These kinases participate in the regulation of alignment and segregation of chromosomes during mitosis and meiosis through association with microtubules. A pseudogene of this gene is located on chromosome 8. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2015]

Gene Information

Gene Symbol
AURKB

Species
Human

Gene ID
9212

Swiss Prot
Q96GD4

Synonyms
AIK2; AIM-1; AIM1; ARK2; AurB; IPL1; PPP1R48; STK12; STK5; aurkb-sv1; aurkb-sv2

Product Information

Description
AURKB Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:WT
Allele-2:exon3 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    AAGGTCATCCCTGT**********GGAGGAGTAGGGAT
Mut   AAGGTCATCCCTGT**********GGAGGAGTAGGGAT
Allele-1:   WT

WT    AAGGTCATCCCTGT**********GGAGGAGTAGGGAT
Mut   AAGGTCATCCCTGT***Deletion***GGAGGAGTAGGGAT
Allele-2:   exon3 was deleted
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Genome sequence analysis of PCR products from parental (WT) and AURKB Knockdown (KD) 293T cells, using sanger sequencing.