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PTK2 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM01950

Basic Information

Catalog No.
RM01950

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
PTK2

Species
Human

Gene ID
5747

Swiss Prot
Q05397

Synonyms
FADK; FAK; FAK1; FRNK; PPP1R71; p125FAK; pp125FAK

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Background

This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene, but the full-length natures of only four of them have been determined. [provided by RefSeq, Oct 2015]

Product Information

Description
PTK2 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:81bp deletion in exon1
Allele-2:82bp deletion in exon1
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

WT AGACTCACCTGGGT**********ACCTGGGCCAGTAT
Mut AGACTCACCTGGGT***Deletion***ACCTGGGCCAGTAT
Allele-1: 81bp deletion in exon1

WT AAGACTCACCTGGG**********ACCTGGGCCAGTAT
Mut AAGACTCACCTGGG***Deletion***ACCTGGGCCAGTAT
Allele-2: 82bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and PTK2 Knockdown (KD) HeLa cells, using sanger sequencing.

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