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CRKL Knockout 293T Cell Line, Homozygous

Catalog No.: RM02218

Basic Information

Catalog No.
RM02218

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
CRKL

Species
Human

Gene ID
1399

Swiss Prot
P46109

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Background

This gene encodes a protein kinase containing SH2 and SH3 (src homology) domains which has been shown to activate the RAS and JUN kinase signaling pathways and transform fibroblasts in a RAS-dependent fashion. It is a substrate of the BCR-ABL tyrosine kinase, plays a role in fibroblast transformation by BCR-ABL, and may be oncogenic.[provided by RefSeq, Jan 2009]

Product Information

Description
CRKL Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:65bp deletion in exon1
Allele-2:80bp 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
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

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 GGCCAGCGCCACGG**********CGCGGGTCTCCCAC
Mut GGCCAGCGCCACGG***Deletion***CGCGGGTCTCCCAC
Allele-1: 65bp deletion in exon1

WT GCTCCAGGGCCAGC**********TCCCACTACATCAT
Mut GCTCCAGGGCCAGC***Deletion***TCCCACTACATCAT
Allele-2: 80bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and CRKL knockout (KO) 293T cells, using sanger sequencing.