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Src Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02114

Basic Information

Catalog No.
RM02114

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
Src

Species
Human

Gene ID
6714

Swiss Prot
P12931

Synonyms
ASV; SRC1; THC6; c-SRC; p60-Src

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Background

This gene is highly similar to the v-src gene of Rous sarcoma virus. This proto-oncogene may play a role in the regulation of embryonic development and cell growth. The protein encoded by this gene is a tyrosine-protein kinase whose activity can be inhibited by phosphorylation by c-SRC kinase. Mutations in this gene could be involved in the malignant progression of colon cancer. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product Information

Description
Src Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:46bp deletion in exon2
Allele-2:46bp 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     TGACTATGAGTCTA**************TGTCAACAACACGT
Mut    TGACTATGAGTCTA***Deletion***TGTCAACAACACGT
Allele-1: 46bp deletion in exon2

WT     TGACTATGAGTCTA**************TGTCAACAACACGT
Mut    TGACTATGAGTCTA***Deletion***TGTCAACAACACGT
Allele-2: 46bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and Src knockout (KO) HeLa cells, using sanger sequencing.

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