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JUN Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM02092

Basic Information

Catalog No.
RM02092

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockdown

Background

This gene is the putative transforming gene of avian sarcoma virus 17. It encodes a protein which is highly similar to the viral protein, and which interacts directly with specific target DNA sequences to regulate gene expression. This gene is intronless and is mapped to 1p32-p31, a chromosomal region involved in both translocations and deletions in human malignancies. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
JUN

Species
Human

Gene ID
3725

Swiss Prot
P05412

Synonyms
AP-1; AP1; c-Jun

Product Information

Description
JUN Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:98bp deletion in exon1
Allele-2:99bp 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.

Contact

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Sequencing data

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WT    CGTTCCTCCCGTCC**************CGCCAAGAACTCGG
Mut   CGTTCCTCCCGTCC***Deletion***CGCCAAGAACTCGG
Allele-1：98bp deletion in exon1
WT    CGTTCCTCCCGTCC**************GCCAAGAACTCGGA
Mut   CGTTCCTCCCGTCC***Deletion***GCCAAGAACTCGGA
Allele-2：99bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and JUN Knockdown (KD) HeLa cells, using sanger sequencing.