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FOS Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01882

Basic Information

Catalog No.
RM01882

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
FOS

Species
Human

Gene ID
2353

Swiss Prot
P01100

Synonyms
AP-1; C-FOS; p55

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Background

The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. In some cases, expression of the FOS gene has also been associated with apoptotic cell death. [provided by RefSeq, Jul 2008]

Product Information

Description
FOS Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:139bp deletion in exon2
Allele-2:140bp 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

```
WT    GGTCACTGCCATCT**************CATGACAGGAGGCC
Mut   GGTCACTGCCATCT***Deletion***CATGACAGGAGGCC
Allele-1: 139bp deletion in exon2

WT    GGTCACTGCCATCT**************ATGACAGGAGGCCG
Mut   GGTCACTGCCATCT***Deletion***ATGACAGGAGGCCG
Allele-2: 140bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and FOS knockout (KO) HeLa cells, using sanger sequencing.

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