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FASN Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02233

Basic Information

Catalog No.
RM02233

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
FASN

Species
Human

Gene ID
2194

Swiss Prot
P49327

Synonyms
FAS; OA-519; SDR27X1

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Background

The enzyme encoded by this gene is a multifunctional protein. Its main function is to catalyze the synthesis of palmitate from acetyl-CoA and malonyl-CoA, in the presence of NADPH, into long-chain saturated fatty acids. In some cancer cell lines, this protein has been found to be fused with estrogen receptor-alpha (ER-alpha), in which the N-terminus of FAS is fused in-frame with the C-terminus of ER-alpha. [provided by RefSeq, Jul 2008]

Product Information

Description
FASN Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:113bp deletion in exon2
Allele-2:113bp 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
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 GGCCTGCCCCGGCG**********AAGCCATCGTGGAC
Mut GGCCTGCCCCGGCG***Deletion***AAGCCATCGTGGAC
Allele-1: 113bp deletion in exon2

WT GGCCTGCCCCGGCG**********AAGCCATCGTGGAC
Mut GGCCTGCCCCGGCG***Deletion***AAGCCATCGTGGAC
Allele-2: 113bp deletion in exon2

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