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FASN Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02379

Basic Information

Catalog No.
RM02379

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

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]

Gene Information

Gene Symbol
FASN

Species
Human

Gene ID
2194

Swiss Prot
P49327

Synonyms
FAS; OA-519; SDR27X1

Product Information

Description
FASN Knockout HeLa 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 Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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.

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