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NLRX1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02761

Basic Information

Catalog No.
RM02761

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

The protein encoded by this gene is a member of the NLR family and localizes to the outer mitochondrial membrane. The encoded protein is a regulator of mitochondrial antivirus responses. Three transcript variants encoding the same protein have been found for this gene.

Gene Information

Gene Symbol
NLRX1

Species
Human

Gene ID
79671

Swiss Prot
Q86UT6

Synonyms
NOD5; NOD9; NOD26; DLNB26; CLR11.3; NLRX1

Product Information

Description
NLRX1 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:118bp deletion in exon4
Allele-2:104bp deletion in exon4
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.

Contact

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Sequencing data

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WT    CCACTCAGAAGCTA**************TACCCCTGATGAGC
Mut   CCACTCAGAAGCTA***Deletion***TACCCCTGATGAGC
AIIele-1:   118bp deletion in exon4

WT    TATACAGCGGCACC**************AGTACCCCTGATGA
Mut   TATACAGCGGCACC***Deletion***AGTACCCCTGATGA
AIIele-2:   104bp deletion in exon4
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Genome sequence analysis of PCR products from parental (WT) and NLRX1 knockout (KO) HeLa cells, using sanger sequencing.

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