

NLRX1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02761

Basic Information

Catalog No.

RM02761

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

NLRX1

Species

Human

Gene ID

79671

Swiss Prot

Q86UT6

Synonyms

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

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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 antiviral responses. Three transcript variants encoding the same protein have been found for this gene.

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

1~5x10⁶ cells/vial.

Storage

Stored in liquid nitrogen for a long time less than -130°C. 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°C with 5% CO₂ condition.

1. Thaw the vial in 37°C 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°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

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

Genome sequence analysis of PCR products from parental (WT) and NLRX1 knockout (KO) HeLa cells, using sanger sequencing.

WT TATACAGCGGCACC*****AGTACCCCTGATGA
Mut TATACAGCGGCACC***Deletion***AGTACCCCTGATGA
Allele-2: 104bp deletion in exon4