

INHA Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02596

Basic Information

Catalog No.

RM02596

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

INHA

Species

Human

Gene ID

3623

Swiss Prot

P05111

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Background

This gene encodes a member of the TGF-beta (transforming growth factor-beta) superfamily of proteins. The encoded preproprotein is proteolytically processed to generate multiple peptide products, including the alpha subunit of the inhibin A and B protein complexes. These complexes negatively regulate follicle stimulating hormone secretion from the pituitary gland. Inhibins have also been implicated in regulating numerous cellular processes including cell proliferation, apoptosis, immune response and hormone secretion. Mutations in this gene may be associated with male infertility and premature ovarian failure in female human patients. [provided by RefSeq, Aug 2016]

Product Information

Description

INHA Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:106bp deletion in exon2

Allele-2:125bp 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

Amount1~5x10⁶ 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 CATAACGCAGCCG*****GGAGGACCCGTGGC
Mut CATAACGCAGCCG***Deletion***GGAGGACCCGTGGC
Allele-1: 106bp deletion in exon2

WT TCCGGCCATCCCAG*****ACCCGTGGCTGTGC
Mut TCCGGCCATCCCAG***Deletion***ACCCGTGGCTGTGC
Allele-2: 125bp deletion in exon2

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