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SNAI1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02510

Basic Information

Catalog No.
RM02510

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
SNAI1

Species
Human

Gene ID
6615

Swiss Prot
O95863

Synonyms
SLUGH2; SNA; SNAH; SNAIL; SNAIL1; dJ710H13.1

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Background

The Drosophila embryonic protein snail is a zinc finger transcriptional repressor which downregulates the expression of ectodermal genes within the mesoderm. The nuclear protein encoded by this gene is structurally similar to the Drosophila snail protein, and is also thought to be critical for mesoderm formation in the developing embryo. At least two variants of a similar processed pseudogene have been found on chromosome 2. [provided by RefSeq, Jul 2008]

Product Information

Description
SNAI1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:79bp deletion in exon2
Allele-2:79bp 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
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.

Sequencing data

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WT     TCCTCAACCCCACC**************AGGAGAGTCCCAGG
Mut    TCCTCAACCCCACC***Deletion***AGGAGAGTCCCAGG
Allele-1 : 79bp deletion in exon2

WT     TCCTCAACCCCACC**************AGGAGAGTCCCAGG
Mut    TCCTCAACCCCACC***Deletion***AGGAGAGTCCCAGG
Allele-2 : 79bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and SNAI1 knockout (KO) HeLa cells, using sanger sequencing.