

FOXA1 Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM02523

Basic Information

Catalog No.

RM02523

Category

Cell Line

Parental Cell line

293T

Genotype

Knockdown

Gene Information

Gene Symbol

FOXA1

Species

Human

Gene ID

3169

Swiss Prot

P55317

Synonyms

HNF3A; TCF3A

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Background

This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific transcripts such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver. [provided by RefSeq, Jul 2008]

Product Information

Description

FOXA1 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:137bp deletion in exon2

Allele-2:WT

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 AACATGACCCCGGC*****TGAGCCCGAGCGGC
Mut AACATGACCCCGGC***Deletion***TGAGCCCGAGCGGC
Allele-1: 137bp deletion in exon2

WT AACATGACCCCGGC*****TGAGCCCGAGCGGC
Mut AACATGACCCCGGC*****TGAGCCCGAGCGGC
Allele-2: WT

Genome sequence analysis of PCR products from parental (WT) and FOXA1 Knockdown (KD) 293T cells, using sanger sequencing.