

PROX1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02503

Basic Information

Catalog No.

RM02503

Category

Cell Line

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

PROX1

Species

Human

Gene ID

5629

Swiss Prot

Q92786

Contact

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Background

The protein encoded by this gene is a member of the homeobox transcription factor family. Members of this family contain a homeobox domain that consists of a 60-amino acid helix-turn-helix structure that binds DNA and RNA. The protein encoded by this gene is conserved across vertebrates and may play an essential role during development. Altered levels of this protein have been reported in cancers of different organs, such as colon, brain, blood, breast, pancreas, liver and esophagus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]

Product Information

Description

PROX1 Knockout 293T Cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:190bp deletion in exon1

Allele-2:191bp deletion in exon1

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 AGCGGTCTCTAG*****GTGGCATTAGGGG
Mut AGCGGTCTCTAG***Deletion***GTGGCATTAGGGG
Allele-1: 190bp deletion in exon1

WT GCGGTCTCTAGT*****GCATTAGGGGCA
Mut GCGGTCTCTAGT***Deletion***GCATTAGGGGCA
Allele-2: 191bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and PROX1 knockout (KO) 293T cells, using sanger sequencing.