Leader in Biomolecular Solutions for Life Science

www.abclonal.com

EXON2 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02146

Basic Information

Catalog No.
RM02146

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene is a tumor-specific member of the ECTO-NOX family of genes that encode cell surface NADH oxidases. The encoded protein has two enzymatic activities: catalysis of hydroquinone or NADH oxidation, and protein disulfide interchange. The protein also displays prion-like properties. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Gene Information

Gene Symbol
ENOX2

Species
Human

Gene ID
10495

Swiss Prot
Q16206

Synonyms
APK1; COVA1; tNOX

Product Information

Description
EXON2 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:143bp deletion in exon4
Allele-2:143bp 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
1~5x10^6 cells/vial

Storage
Stored in liquid nitrogen for a long time less than -130℃. 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℃ 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.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Sequencing data

```
WT     TCCCACCTCCTGCA**************TCGCTTTGCTGAGG
Mut    TCCCACCTCCTGCA***Deletion***TCGCTTTGCTGAGG
Allele-1: 143bp deletion in exon4

WT     TCCCACCTCCTGCA**************TCGCTTTGCTGAGG
Mut    TCCCACCTCCTGCA***Deletion***TCGCTTTGCTGAGG
Allele-2: 143bp deletion in exon4
```

Genome sequence analysis of PCR products from parental (WT) and ENOX2 knockout (KO) 293T cells, using sanger sequencing.