Leader in Biomolecular Solutions for Life Science

www.abclonal.com

TSC22D3 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02726

Basic Information

Catalog No.
RM02726

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes the anti-inflammatory protein glucocorticoid (GC)-induced leucine zipper. Expression of this gene stimulated by glucocorticoids and interleukin 10 and it appears to play a key role in the anti-inflammatory and immunosuppressive effects of this steroid. This protein has also been shown to inhibit pro-inflammatory molecules including nuclear factor κB. Alternate splicing results in multiple transcript variants.

Gene Information

Gene Symbol
TSC22D3

Species
Human

Gene ID
1831

Swiss Prot
Q99576

Synonyms
DIP; GILZ; DSIPI; TSC-22R; TSC22D3

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

Description
TSC22D3 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon2 was deleted
Allele-2:exon2 was deleted
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

```
WT    ACTGCCATGTACTC**********GCACTGGAGGTGGA
Mut   ACTGCCATGTACTC***Deletion***GCACTGGAGGTGGA
Allele-1:    exon2 was deleted

WT    ACTGCCATGTACTC**********GCACTGGAGGTGGA
Mut   ACTGCCATGTACTC***Deletion***GCACTGGAGGTGGA
Allele-2:    exon2 was deleted
```

Genome sequence analysis of PCR products from parental (WT) and TSC22D3 knockout (KO) 293T cells, using sanger sequencing.