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# ARHGEF1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02500

#### **Basic Information**

#### Catalog No.

RM02500

#### Category

Cell Line

#### **Parental Cell line**

293T

#### Genotype

Knockout

### **Background**

Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined. [provided by RefSeq, Jul 2008]

#### **Gene Information**

#### **Gene Symbol**

ARHGEF1

#### **Species**

Human

#### **Gene ID**

9138

#### **Swiss Prot**

Q92888

#### **Synonyms**

GEF1; LBCL2; LSC; P115-RHOGEF; SUB1.5

#### **Contact**

8	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
<b>€</b>	www.abclonal.com.cn

#### **Product Information**

#### Description

ARHGEF1 Knockout 293T Cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:exon6 was deleted

Allele-2:exon6 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**

**Amount** 

Dry ice

1~5x10<sup>6</sup> cells/vial

#### Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

#### **Protoco**

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at  $37^{\circ}C$  with 5% CO<sub>2</sub> 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% CO<sub>2</sub>.
- 7. A subcultivation ratio of 1:2-1:4 is recommended.

# Sequencing data

WT CACCCTCGCTTAGA\*\*\*\*\*\*\*\*\*\*\*\*GCGGGGACCACACC
Mut CACCCTCGCTTAGA\*\*\*Deletion\*\*\*GCGGGGACCACACC
Allele-1: exon6 was deleted

WT GCACCCTCGCTTAG\*\*\*\*\*\*\*\*\*\*\*GAGGCCAAGGGGAG
Mut GCACCCTCGCTTAG\*\*\*Deletion\*\*\*GAGGCCAAGGGGAG
Allele-2: exon6 was deleted

Genome sequence analysis of PCR products from parental (WT) and ARHGEF1 knockout (KO) 293T cells, using sanger sequencing.