

# HDAC1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01807

## Basic Information

### Catalog No.

RM01807

### Category

Cell Line

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

HDAC1

### Species

Human

### Gene ID

3065

### Swiss Prot

Q13547

### Synonyms

GON-10; HD1; RPD3; RPD3L1

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis.

## Product Information

### Description

HDAC1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:49bp deletion in exon2

Allele-2:49bp deletion in exon2

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<sup>6</sup> 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% CO<sub>2</sub> condition.

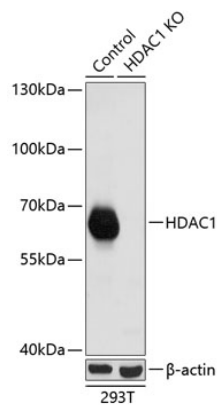
1. Thaw the vial in 37°C water bath, and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell 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 CAATGAAGCCTCAC\*\*\*\*\*AAATGGAAATCTAT  
Mut CAATGAAGCCTCAC\*\*\*Deletion\*\*\*AAATGGAAATCTAT  
Allele-1: 49bp deletion in exon2  
WT CAATGAAGCCTCAC\*\*\*\*\*AAATGGAAATCTAT  
Mut CAATGAAGCCTCAC\*\*\*Deletion\*\*\*AAATGGAAATCTAT  
Allele-2: 49bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and HDAC1 knockout (KO) 293T cells, using sanger sequencing.

## WB data



Western blot analysis of extracts from parental (Control) and HDAC1 knockout (KO) 293T cells, using HDAC1 antibody at 1:1000 dilution.