

# SMAD9 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01956

## Basic Information

### Catalog No.

RM01956

### Category

Cell Line

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

SMAD9

### Species

Human

### Gene ID

4093

### Swiss Prot

O15198

### Synonyms

MADH6; MADH9; PPH2; SMAD8;  
SMAD8/9; SMAD8A; SMAD8B

## 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

The protein encoded by this gene is a member of the SMAD family, which transduces signals from TGF-beta family members. The encoded protein is activated by bone morphogenetic proteins and interacts with SMAD4. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2010]

## Product Information

### Description

SMAD9 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:82bp deletion in exon1

Allele-2:82bp 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

1~5x10<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 GGGGCAGCCAGCA\*\*\*\*\*CGTGTGGCGCTGGC  
Mut GGGGCAGCCAGCA\*\*\*Deletion\*\*\*CGTGTGGCGCTGGC  
Allele-1: 82bp deletion in exon1

WT GGGGCAGCCAGCA\*\*\*\*\*CGTGTGGCGCTGGC  
Mut GGGGCAGCCAGCA\*\*\*Deletion\*\*\*CGTGTGGCGCTGGC  
Allele-2: 82bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and SMAD9 knockout (KO) 293T cells, using sanger sequencing.