

# BMPR1B Knockout 293T Cell Line, Homozygous

Catalog No.: RM02144

## Basic Information

### Catalog No.

RM02144

### Category

Cell Line

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

BMPR1B

### Species

Human

### Gene ID

658

### Swiss Prot

O00238

### Synonyms

ALK-6; ALK6; AMDD; BDA1D; BDA2;  
CDw293

## 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

This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

## Product Information

### Description

BMPR1B Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:31bp deletion in exon1

Allele-2:31bp 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

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WT CCCACCCCGTC\*\*\*\*\*TTGCCAGAAGACT  
Mut CCCACCCCGTC\*\*\*Deletion\*\*\*TTGCCAGAAGACT  
Allele-1: 31bp deletion in exon1  
WT CCCACCCCGTC\*\*\*\*\*TTGCCAGAAGACT  
Mut CCCACCCCGTC\*\*\*Deletion\*\*\*TTGCCAGAAGACT  
Allele-2: 31bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and BMPR1B knockout (KO) 293T cells, using sanger sequencing.