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# POLB Knockout 293T Cell Line, Homozygous

**Catalog No.: RM02502**

## Basic Information

**Catalog No.**
RM02502

**Category**
Cell Line

**Parental Cell line**
293T

**Genotype**
Knockout

## Background

The protein encoded by this gene is a DNA polymerase involved in base excision and repair, also called gap-filling DNA synthesis. The encoded protein, acting as a monomer, is normally found in the cytoplasm, but it translocates to the nucleus upon DNA damage. Several transcript variants of this gene exist, but the full-length nature of only one has been described to date. [provided by RefSeq, Sep 2011]

## Gene Information

**Gene Symbol**
POLB

**Species**
Human

**Gene ID**
5423

**Swiss Prot**
P06746

## Contact


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## Product Information

**Description**
POLB Knockout 293T Cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:13bp deletion in exon2
Allele-2:36bp deletion in exon1 and 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

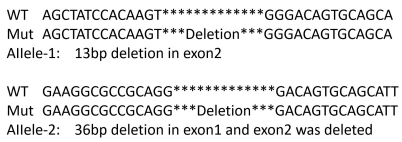
**Shipping Conditions**
Dry ice

**Amount**
1~5x$10^6$ 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




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