

# PLA2R1 Knockout HeLa Cell Line, Homozygous

**Catalog No.:** RM02115

## Basic Information

**Catalog No.**

RM02115

**Category**

Cell Line

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

PLA2R1

**Species**

Human

**Gene ID**

22925

**Swiss Prot**

Q13018

**Synonyms**

CLEC13C; PLA2-R; PLA2G1R; PLA2IR; PLA2R

## 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 represents a phospholipase A2 receptor. The encoded protein likely exists as both a transmembrane form and a soluble form. The transmembrane receptor may play a role in clearance of phospholipase A2, thereby inhibiting its action. Polymorphisms at this locus have been associated with susceptibility to idiopathic membranous nephropathy. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Sep 2010]

## Product Information

**Description**

PLA2R1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:71bp deletion in exon2

Allele-2:73bp 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

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WT TAAATCGGTTCTGA\*\*\*\*\*ATAGGAGGCAGTGG  
Mut TAAATCGGTTCTGA\*\*\*Deletion\*\*\*ATAGGAGGCAGTGG  
Allele-1: 71bp deletion in exon2  
WT TAAATCGGTTCTGA\*\*\*\*\*AGGAGGCAGTGGTT  
Mut TAAATCGGTTCTGA\*\*\*Deletion\*\*\*AGGAGGCAGTGGTT  
Allele-2: 73bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PLA2R1 knockout (KO) HeLa cells, using sanger sequencing.