# ABclonal www.abclonal.com

# CHRM1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01876

### **Basic Information**

#### Catalog No.

RM01876

### Category

Cell Line

#### **Parental Cell line**

HeLa

#### Genotype

Knockout

**Background** 

### **Gene Information**

### **Gene Symbol**

CHRM1

#### **Species**

Human

## Gene ID

1128

#### **Swiss Prot**

P11229

#### Synonyms

HM1; M1; M1R

#### Contact

2	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

## **Product Information**

CHRM1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.

The muscarinic cholinergic receptors belong to a larger family of G protein-coupled

receptors. The functional diversity of these receptors is defined by the binding of

muscarinic cholinergic receptor 1 is involved in mediation of vagally-induced bronchoconstriction and in the acid secretion of the gastrointestinal tract. The gene

encoding this receptor is localized to 11q13. [provided by RefSeq, Jul 2008]

acetylcholine and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors

influence many effects of acetylcholine in the central and peripheral nervous system. The

Allele-1:137bp deletion in exon1

Allele-2:2bp deletion and 1bp insertion 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**

**Amount** 

Dry ice

1~5x106 cells/vial

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

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 CGGGCCTCCTGTCG\*\*\*\*\*\*\*\*\*\*\*\*TACCACGTACCTGC
Mut CGGGCCTCCTGTCG\*\*\*Deletion\*\*\*TACCACGTACCTGC
Allele-1: 137bp deletion in exon1

WT TGTCG CTAGC\*\*\*CTCTA\*\*\*\*\*\*\*\*\*\*\*\*CCACGTACCTGC
Mut TGTCGGCTAGC\*\*\*CTCTA\*\*Deletion\*\*CCACGTACCTGC
Allele-2: 2bp deletion and 1bp Insertion in exon1

Genome sequence analysis of PCR products from parental (WT) and CHRM1 knockout (KO) HeLa cells, using sanger sequencing.