

# HMGCR Knockdown 293T Cell Lysate, Heterozygous

**Catalog No.: RM01780**

## Basic Information

**Catalog No.**

RM01780

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockdown

## Gene Information

**Species**

Human

**Gene ID**

3156

**Swiss Prot**

P04035

**Synonyms**

LDLCQ3

## 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

HMG-CoA reductase is the rate-limiting enzyme for cholesterol synthesis and is regulated via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from mevalonate, the product of the reaction catalyzed by reductase. Normally in mammalian cells this enzyme is suppressed by cholesterol derived from the internalization and degradation of low density lipoprotein (LDL) via the LDL receptor. Competitive inhibitors of the reductase induce the expression of LDL receptors in the liver, which in turn increases the catabolism of plasma LDL and lowers the plasma concentration of cholesterol, an important determinant of atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

## Product Information

**Description**

HMGCR Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:WT

Allele-2:exon2 was destroyed

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 Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**

4°C

**Amount**

50μL, 2μg/μL.

**Storage**

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

**Protocol**

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

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WT CTTTCTTTCTCTCCTATTA-GGATGTTTGAGCAGTGAC  
Mut CTTTCTTTCTCTCCTATTAAGGATGTTTGAGCAGTGAC  
Allele-1: WT

WT CTTTCTTTCTCTCCTATTAGGATGTTTGAGCAGTGACA  
Mut CTTTCTTTCTCTCCTATTA--GTTTGAGCAGTGACA  
Allele-2: exon2 was destroyed

Genome sequence analysis of PCR products from parental (WT) and HMGR Knockdown (KD) 293T cells, using sanger sequencing.