

# HK1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01976

## Basic Information

### Catalog No.

RM01976

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

HK1

### Species

Human

### Gene ID

3098

### Swiss Prot

P19367


### Synonyms

HK; HK1-ta; HK1-tb; HK1-tc; HKD; HKI;  
HMSNR; HXK1; hexokinase

## 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

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in several transcript variants which encode different isoforms, some of which are tissue-specific. [provided by RefSeq, Apr 2016]

## Product Information

### Description

HK1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.  
Allele-1:4bp deletion in exon2  
Allele-2:4bp 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 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 TCATAGATATCATGACTCGCTTCAGGAAGGAGATGAAGAA  
Mut TCATAGATATCATGACTCGC---GGAAGGAGATGAAGAA  
Allele-1: 4bp deletion in exon2  
WT TCATAGATATCATGACTCGCTTCAGGAAGGAGATGAAGAA  
Mut TCATAGATATCATGACTCGC---GGAAGGAGATGAAGAA  
Allele-2: 4bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and HK1 knockout (KO) 293T cells, using sanger sequencing.