

# HK2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02271

## Basic Information

### Catalog No.

RM02271

### Category

Cell Lysate

### Parental Cell line

HeLa

### Genotype

Knockout

## Gene Information

### Gene Symbol

HK2

### Species

Human

### Gene ID

3099

### Swiss Prot

P52789

### Synonyms

HKII; HXK2

## 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 hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells. [provided by RefSeq, Apr 2009]

## Product Information

### Description

HK2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology. Allele-1:exon2 was deleted

Allele-2: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 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 GTGGTGTCCATGA\*\*\*\*\*CTCAGGGGTGATT  
Mut GTGGTGTCCATGA\*\*\*Deletion\*\*\*CTCAGGGGTGATT  
Allele-1: exon2 was deleted  
WT TGAAGAGCTGAGT\*\*\*\*\*CTCAGGGGTGATT  
Mut TGAAGAGCTGAGT\*\*\*Deletion\*\*\*CTCAGGGGTGATT  
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and HK2 knockout (KO) HeLa cells, using sanger sequencing.