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# 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


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## 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℃

**Amount**
50μL, 2μg/μL.

**Storage**
Lysate is stable for 12 months when stored at -20℃. 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

WT GTGGTGTTCCATGA**********CTCAGGGGTGATTT
Mut GTGGTGTTCCATGA***Deletion***CTCAGGGGTGATTT
Allele-1: exon2 was deleted

WT TGAAGAGCTGAGTG**********CTCAGGGGTGATTT
Mut TGAAGAGCTGAGTC***Deletion***CTCAGGGGTGATTT
Allele-2: exon2 was deleted

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