

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

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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°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

WT GTGGTGTTCATGA*****CTCAGGGGTGATT
Mut GTGGTGTTCATGA***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.