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# PKM Knockout HeLa Cell Lysate, Homozygous

**Catalog No.: RM02190**

## Basic Information

**Catalog No.**
RM02190

**Category**
Cell Lysate

**Parental Cell line**
HeLa

**Genotype**
Knockout

## Gene Information

**Gene Symbol**
PKM

**Species**
Human

**Gene ID**
5315

**Swiss Prot**
P14618

**Synonyms**
CTHBP; HEL-S-30; OIP3; PK3; PKM2; TCB; THBP1

## Contact


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## Background

This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Several alternatively spliced transcript variants encoding a few distinct isoforms have been reported. [provided by RefSeq, May 2011]

## Product Information

**Description**
PKM Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:exon3 was deleted
Allele-2:exon3 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℃

**Amount**
50μL, 2μg/μL.

**Storage**
Store at -20℃

**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 TGAGCATTGTTCCC**********TATGGGAGCTGGAG
Mut TGAGCATTGTTCCC***Deletion***TATGGGAGCTGGAG
Allele-1: exon3 was deleted

WT TGAGCATTGTTCCC**********TATGGGAGCTGGAG
Mut TGAGCATTGTTCCC***Deletion***TATGGGAGCTGGAG
Allele-2: exon3 was destroyed

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