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PRKAA1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02255

Basic Information

Catalog No.
RM02255

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
PRKAA1

Species
Human

Gene ID
5562

Swiss Prot
Q13131

Synonyms
AMPK; AMPKa1

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Background

The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

Product Information

Description
PRKAA1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:1bp deletion in exon2
Allele-2:2bp 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℃

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 TCGGAGCCTTGATG**********GGTAGGAAAAATCC
Mut TCGGAGCCTTGATG***Deletion***GGTAGGAAAAATCC
Allele-1: 1bp deletion in exon2

WT TCGGAGCCTTGATG**********GTAGGAAAAATCCG
Mut TCGGAGCCTTGATG***Deletion***GTAGGAAAAATCCG
Allele-2: 2bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PRKAA1 knockout (KO) HeLa cells, using sanger sequencing.

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