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AK2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02362

Basic Information

Catalog No.
RM02362

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
AK2

Species
Human

Gene ID
204

Swiss Prot
P54819

Synonyms
ADK2

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Background

Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes isozyme 2. Expression of these isozymes is tissue-specific and developmentally regulated. Isozyme 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis. Mutations in this gene are the cause of reticular dysgenesis. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 1 and 2.[provided by RefSeq, Nov 2010]

Product Information

Description
AK2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:Insert the 181 bases,the promoter was damaged
Allele-2:Insert the 181 bases,the promoter was damaged
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 CGTGCGTGGCGTGC**********AAGCACTGGACCTG
Mut CGTGCGTGGCGTGC***Insertion***AAGCACTGGACCTG
Allele-1: Insert the 181 bases, the promoter was damaged

WT CGTGCGTGGCGTGC**********AAGCACTGGACCTG
Mut CGTGCGTGGCGTGC***Insertion***AAGCACTGGACCTG
Allele-2: Insert the 181 bases, the promoter was damaged

Genome sequence analysis of PCR products from parental (WT) and AK2 knockout (KO) HeLa cells, using sanger sequencing.

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