Human AK4 Knockdown Cell Lysate

Cat. No. AK4-031HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated AK4 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1.
Form	Cell-Tissue Lysis buffer
Molecular Mass	25 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg AK4 KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Purine metabolism
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	AK4 adenylate kinase 4 [Homo sapiens (human)]
Official Symbol	AK4
Synonyms	AK4; adenylate kinase 4; adenylate kinase 3, adenylate kinase 3 like 1, AK3, AK3L1; adenylate kinase isoenzyme 4, mitochondrial; adenylate kinase 3-like 1; ATP-AMP transphosphorylase; GTP:AMP phosphotransferase; mitochondrial adenylate kinase-3; nucleoside-triphosphate-adenylate kinase; AK3; AK3L1; AK3L2; MGC166959;
Gene ID	205
mRNA Refseq	NM_001005353
Protein Refseq	NP_001005353

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MIM	103030
UniProt ID	P27144

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