

## Recombinant Human AK3L1 293 Cell Lysate

Cat. No. AK4-8945HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for adenylate kinase 3-like 1 (AK3L1), nuclear gene encoding mitochondrial protein, transcript variant 5 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	AK4?adenylate kinase 4 [?Homo sapiens?(human) ]
<b>Official Symbol</b>	AK4
<b>Synonyms</b>	AK4; adenylate kinase 4; AK3; AK 4; AK3L1; AK3L2; adenylate kinase 4, mitochondrial; adenylate kinase 3-like 1; ATP-AMP transphosphorylase; mitochondrial adenylate kinase-3; nucleoside-triphosphate-adenylate kinase; adenylate kinase isoenzyme 4, mitochondrial; GTP:AMP phosphotransferase AK4, mitochondrial; NP_001005353.1; EC 2.7.4.10; EC 2.7.4.6; NP_037542.1; NP_982289.1
<b>Gene ID</b>	205
<b>mRNA Refseq</b>	NM_001005353
<b>Protein Refseq</b>	NP_001005353
<b>MIM</b>	103030
<b>UniProt ID</b>	P27144
<b>Chromosome Location</b>	1p31.3
<b>Pathway</b>	Adenine ribonucleotide biosynthesis, IMP =>ADP,ATP, organism-specific biosystem; Adenine ribonucleotide biosynthesis, IMP =>ADP,ATP, conserved biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem

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**Function**

ATP binding; GTP binding; adenylate kinase activity; NOT adenylate kinase activity

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