

Recombinant Human AK3L1 293 Cell Lysate

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

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	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.
Components	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).
Size	0.1 mg
Storage Instruction	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.

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Applications

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

GENE INFORMATION
Gene Name

AK4?adenylate kinase 4 [?Homo sapiens?(human)]

Official Symbol

AK4

Synonyms

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

Gene ID

205

mRNA Refseq

NM_001005353

Protein Refseq

NP_001005353

MIM

103030

UniProt ID

P27144

Chromosome Location

1p31.3

Pathway

Adenine ribonucleotide biosynthesis, IMP =>ADP,ATP, organism-specific biosystem; Adenine ribonucleotide biosynthesis, IMP =>ADP,ATP, conserved biosystem; Purine

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metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem

Function

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

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