

Recombinant Full Length Human AK4 Protein, GST-tagged

Cat. No. AK4-965HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AK3L1 full-length ORF (AAH16180, 1 a.a. - 223 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	223 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	50.27 kDa
AA Sequence	MASKLLRAVI LGPPGSGKGT VCQRIAQNFG LQHLSSGHFL RENIKASTEY GEMAKQYIEK SLLVPDHVIT RLMMSELENR RGQHWLLDGF PRTLQGAEAL DKICEVDLVI SLNIPFETLK DRLSRRWIHP PSGRVYNLDF NPPHVHGIDD

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VTGEPLVQQE DDKPEAVAAR LRQYKDVAKP VIELYKSRGV LHQFSGTETN
KIWPYVYTLF SNKITPIQSK EAY

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; ATP-AMP transphosphorylase; GTP:AMP phosphotransferase AK4, mitochondrial; adenylate kinase 3-like 1; adenylate kinase isoenzyme 4, mitochondrial; mitochondrial adenylate kinase-3; nucleoside-triphosphate-adenylate kinase; EC 2.7.4.10; EC 2.7.4.6

Gene ID

205

mRNA Refseq

NM_001005353

Protein Refseq

NP_001005353

MIM

103030

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UniProt ID

P27144

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