Recombinant Human AK2, GST-tagged

Cat. No. AK2-9512H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AK2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-202a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

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Gene Name	AK2 adenylate kinase 2 [Homo sapiens]
Official Symbol	AK2
Synonyms	AK2; adenylate kinase 2; adenylate kinase 2, mitochondrial; ATP-AMP transphosphorylase 2; adenylate kinase isoenzyme 2, mitochondrial; ADK2; AK 2;
Gene ID	204
mRNA Refseq	NM_001199199
Protein Refseq	NP_001186128
MIM	103020
UniProt ID	P54819
Chromosome Location	1p35.1
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Synthesis and interconversion of nucleotide di- and triphosphates, organism-specific biosystem;
Function	ATP binding; adenylate kinase activity; nucleotide binding; transferase activity;

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