

# Recombinant Full Length Human AK2 Protein, GST-tagged

**Cat. No.** AK2-963HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human AK2 full-length ORF ( AAH09405, 1 a.a. - 239 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	239 amino acids
<b>Description</b>	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.[provided by RefSeq, Nov 2010]
<b>Molecular Mass</b>	52.03 kDa
<b>AA Sequence</b>	MAPSVPA AEP EYPKGIRAVL LGPPGAGKGT QAPRLAENFC VCHLATGDML RAMVASGSEL GKCLKATMDA GKLVSDEMVV ELIEKNLETP LCKNGFLLDG FPRTVRQAEM LDDLMEKRKE KLDSVIEFSI PDSLLIRIT GRLIHPKSGR SYHEEFNPPK EPMKDDITGE PLIRRSDDNE KALKIRLQAY HTQTTPLEIY

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YRKRGIHSAI DASQTPDVVF ASILAAFSKA TCKDLVMFI

**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**

[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; AK2

**Gene ID**

[204](#)

**mRNA Refseq**

[NM\\_001199199](#)

**Protein Refseq**

[NP\\_001186128](#)

**MIM**

[103020](#)

**UniProt ID**

[P54819](#)

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