

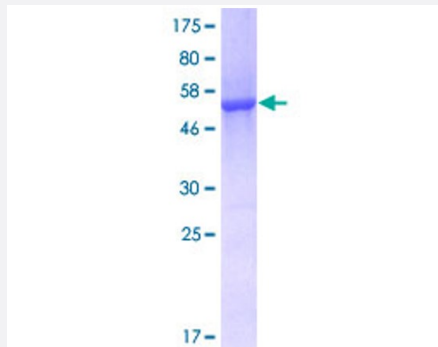
Full-Length

## AK2 (Human) Recombinant Protein (P01)

Catalog # H00000204-P01

Size 25 ug, 10 ug

### Applications



### Specification

<b>Product Description</b>	Human AK2 full-length ORF ( AAH09405, 1 a.a. - 239 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSELGKK LKATMDAGKLVSDENVVLEIEKNLETPLCNGFLLDGFPRTVRQAEMLDDLMEKRKEKLDVIEF SIPDSLLIRRITGRLIHPKSGRSYHEEFNPPKEPMKDDITGEPLIRRSDDNEKALKIRLQAYHTQTPLI EYYRKRGIHSAIDASQTPDVVFASILAFAFSKATCKDLVMFI
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	52.03
<b>Interspecies Antigen Sequence</b>	Mouse (95); Rat (94)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Best use within three months from the date of receipt of this protein.

## Applications

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

## Gene Info — AK2

Entrez GeneID [204](#)

GeneBank Accession# [BC009405](#)

Protein Accession# [AAH09405](#)

Gene Name AK2

Gene Alias ADK2

Gene Description adenylate kinase 2

Omim ID [103020](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]

**Other Designations** ATP-AMP transphosphorylase[OTTHUMP00000004287|OTTHUMP00000004288]adenylate kinase isoenzyme 2, mitochondrial|adenylate kinase, mitochondrial

## Pathway

- [Metabolic pathways](#)
- [Purine metabolism](#)