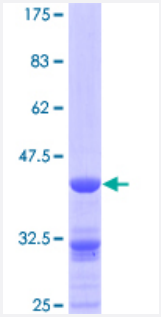
AK2 (Human) Recombinant Protein (Q01)

Catalog # H00000204-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AK2 partial ORF (NP_001616.1, 1 a.a. - 96 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSELGKK LKATMDAGKLVSDEMVVELIEKNLETPLCKNGF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.3
Interspecies Antigen Sequence	Mouse (94); Rat (93)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	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#	NM_001625
Protein Accession#	NP_001616.1
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