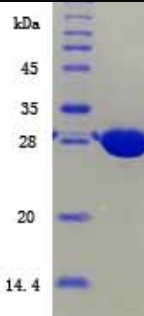


Recombinant Human AK2 Protein Data Sheet

Catalog #	hRP-M0893-EF012
Size	100 µg
Protein Name	Adenylate kinase 2, mitochondrial
Protein Symbol	AK2
Original Source	<i>Homo sapiens</i>
Expression System	<i>E.coli</i>
GenBank Accession #	NM_013411.1
Uniprot Accession #	P54819-2
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.
Application	WB, ELISA, IP, antibody production, protein array
Fusion tag	N-His
Peptide Length	247aa(including fusion tag)
Molecular Weight	27.5kDa(including fusion tag)
pI	8.1
Activity	NA
Storage	Storage buffer: 20mM Tris.Cl, 50mM NaCl, 50% Glycerol, pH9.0. Store at -80°C and avoid repeated freeze-thaw cycles.
	
Reference:	• Adenylate kinase 2, a mitochondrial enzyme • Reticular dysgenesis (aleukocytosis) is caused by mutations in the gene encoding mitochondrial adenylate kinase 2. • AK2 activates a novel apoptotic pathway through formation of a complex with FADD and caspase-10.

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