# Recombinant Human AK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** AK2-685H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | AK2 MS Standard C13 and N15-labeled recombinant protein (NP_001616) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells. |
| **Species** | Human |
| **Source** | HEK293 |
| **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. |
| **Molecular Mass** | 26.5 kDa |
| **AA Sequence** | MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVAS GSELGKKLKATMDAGKLVSDEMVVELIEKNLETPLCKNGFLLDGFPRTVRQAEMLD DLMEKRKEKLDSVIEFSIPDSLLIRRITGRLIHPKSGRSYHEEFNPPKEPMKDDITGEP LIRRSDDNEKALKIRLQAYHTQTTPLIEYYRKRGIHSAIDASQTPDVVFASILAAFSKAT CKDLVMFITRTRPLEQKLISEEDLAANDILDYKDDDDKV |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Stability** | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| **Storage** | Store at -80 centigrade. Avoid repeated freeze-thaw cycles. |
| **Concentration** | 50 μg/mL as determined by BCA |
| **Storage Buffer** | 100 mM glycine, 25 mM Tris-HCl, pH 7.3. |

## GENE INFORMATION

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| **Gene Name** | AK2 adenylate kinase 2 [ Homo sapiens (human) ] |
| **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_001625 |
| **Protein Refseq** | NP_001616 |
| **MIM** | 103020 |
| **UniProt ID** | P54819 |

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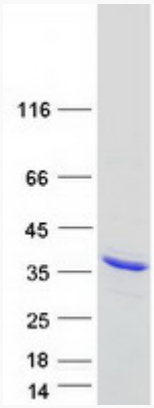
| **SDS-PAGE** |  |



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