

## Recombinant Human AK2 Protein, GST-tagged

**Cat. No.** AK2-484H    **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>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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>      | MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVAS<br>GSELGKKLKATMDAGKLVSDVMVELIEKNLETPLCCKNGFLLDGFPRTVRQAEMLD<br>DLMEKRKEKLDVIEFSIPDSSLIRIRITGRLIHPKSGRSYHEEFNPPKEPMKDDITGEP<br>LIRRSDNEKALKIRLQAYHTQTTPLEYYRKRGIHSAIDASQTPDVVFASILAFAFSKAT<br>CKDLVMFI                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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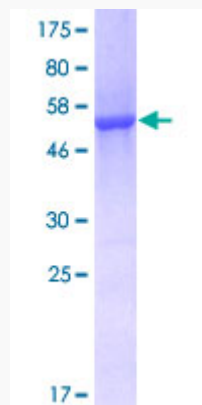
 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                  |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                             |
| <b>Storage</b>          | Store at -80centigrade. Aliquot to avoid repeated freezing and thawing.                                                                            |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                    |
| <b>Gene Name</b>        | AK2 adenylate kinase 2 [ Homo sapiens ]                                                                                                            |
| <b>Official Symbol</b>  | AK2                                                                                                                                                |
| <b>Synonyms</b>         | AK2; adenylate kinase 2; adenylate kinase 2, mitochondrial; ATP-AMP transphosphorylase 2; adenylate kinase isoenzyme 2, mitochondrial; ADK2; AK 2; |
| <b>Gene ID</b>          | 204                                                                                                                                                |
| <b>mRNA Refseq</b>      | NM_001199199                                                                                                                                       |
| <b>Protein Refseq</b>   | NP_001186128                                                                                                                                       |
| <b>MIM</b>              | 103020                                                                                                                                             |
| <b>UniProt ID</b>       | P54819                                                                                                                                             |

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**Quality Control****Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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