

**Human recombinant protein AK2**  
**Human Recombinant AK2**  
**Catalog # PBV10622r****Specification**

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**Human recombinant protein AK2 - Product info**

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Primary Accession | <a href="#">P54819</a>                          |
| Concentration     | 1                                               |
| Calculated MW     | 28.6 kDa (259 aa, 1-239 aa + NT His Tag)<br>KDa |

**Human recombinant protein AK2 - Additional Info**

|                          |                                                                                                                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 204                                                                                                                                                                                                                                                                                |
| Gene Symbol              | AK2                                                                                                                                                                                                                                                                                |
| <b>Other Names</b>       |                                                                                                                                                                                                                                                                                    |
| Adenylate kinase 2, ADK2 |                                                                                                                                                                                                                                                                                    |
| Gene Source              | Human                                                                                                                                                                                                                                                                              |
| Source                   | E. Coli                                                                                                                                                                                                                                                                            |
| Assay&Purity             | SDS-PAGE; ≥95%                                                                                                                                                                                                                                                                     |
| Assay2&Purity2           | N/A;                                                                                                                                                                                                                                                                               |
| Recombinant              | Yes                                                                                                                                                                                                                                                                                |
| Results                  | >1.5 units/ml                                                                                                                                                                                                                                                                      |
| Sequence                 | MGSSHHHHHH SSGLVPRGSH MAPSVPAAEPEYPKGIRAVL LGPPGAGKGT QAPRLAENFCVCHLATGDML RAMVASGSEL GKCLKATMDAGKLVSDVMV ELIEKNLETP LCKNGFLLDGFPRTVRQAEM LDDLMEKRKE KLDSVIEFSIPDSSLIRIT GRLIHPKSGR SYHEEFNPPKEPMKDDITGE PLIRRSDDNE KALKIRLQAYHTQTTPLIEY YRKRGIHSAI DASQTPDVVFASILAAFSKA TCKDLVMFI |

**Format**  
Liquid**Storage**  
-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 7.5) containing 5 mM DTT and 20% glycerol.**Human recombinant protein AK2 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Human recombinant protein AK2 - Images**

### **Human recombinant protein AK2 - Background**

Adenylate kinase (AK; adenosine triphosphate-adenosine monophosphate [ATP-AMP] phosphotransferase) is a ubiquitous monomeric enzyme involved energy metabolism of prokaryotic and eukaryotic cells. Three isozymes (AK1, AK2 and AK3) are characterized in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. AK2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis.

### **Human recombinant protein AK2 - References**

Lee Y.,et al.Biochem. Mol. Biol. Int. 39:833-842(1996).  
Lee Y.,et al.J. Biochem. 123:47-54(1998).  
Noma T.,et al.Biochim. Biophys. Acta 1395:34-39(1998).  
Guo J.,et al.Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).