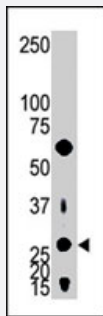


# AK2 polyclonal antibody

Catalog # PAB3994

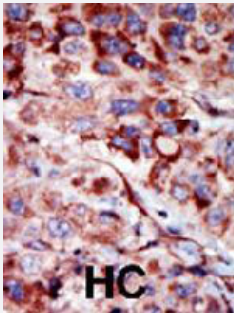
Size 400 uL

## Applications



### Western Blot (Cell lysate)

The AK2 polyclonal antibody (Cat # PAB3994) is used in Western blot to detect AK2 in Jurkat cell lysate.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with AK2 polyclonal antibody (Cat # PAB3994), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of AK2.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human AK2.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification

<b>Recommend Usage</b>	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — AK2

<b>Entrez GeneID</b>	<a href="#">204</a>
<b>Protein Accession#</b>	<a href="#">P54819</a>
<b>Gene Name</b>	AK2
<b>Gene Alias</b>	ADK2
<b>Gene Description</b>	adenylate kinase 2
<b>Omim ID</b>	<a href="#">103020</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

**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

**Publication Reference**

- [Cloning and expression of human adenylate kinase 2 isozymes: differential expression of adenylate kinase 1 and 2 in human muscle tissues.](#)

Lee Y, Kim JW, Lee SM, Kim HJ, Lee KS, Park C, Choe IS.

Journal of Biochemistry 1998 Jan; 123(1):47.

Application: WB-Ti, Human, Skeletal muscle, Heart

- [cDNA cloning and tissue-specific expression of the gene encoding human adenylate kinase isozyme 2.](#)

Noma T, Song S, Yoon YS, Tanaka S, Nakazawa A.

Biochimica et Biophysica Acta. 1998 Jan; 1395(1):34.

- [Cloning and characterization of cDNA for human adenylate kinase 2A.](#)

Lee Y, Kim JW, Lee IA, Kang HB, Choe YK, Lee HG, Lim JS, Kim HJ, Park C, Choe IS.

Biochemistry and Molecular Biology International 1996 Jul; 39(4):833.

**Pathway**

- [Metabolic pathways](#)
- [Purine metabolism](#)