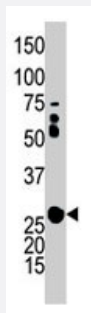


AK2 polyclonal antibody

Catalog # PAB3993

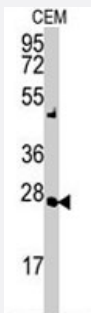
Size 400 uL

Applications



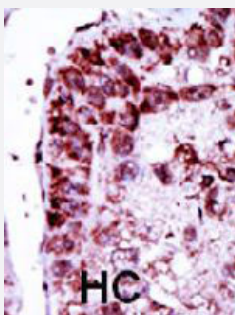
Western Blot (Tissue lysate)

The AK2 polyclonal antibody (Cat # PAB3993) is used in Western blot to detect AK2 in mouse kidney tissue lysate.



Western Blot (Cell lysate)

Western blot analysis of AK2 polyclonal antibody (Cat # PAB3993) in CEM cell lysate (35 ug/lane). AK2 (arrow) was detected using the purified polyclonal antibody.



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

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with AK2 polyclonal antibody (Cat # PAB3993), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of AK2.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human AK2.

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

Applications

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

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — AK2

Entrez GeneID	204
Protein Accession#	P54819
Gene Name	AK2

Gene Alias	ADK2
Gene Description	adenylate kinase 2
Omim ID	103020
Gene Ontology	Hyperlink
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](#)