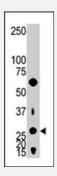


AK2 polyclonal antibody

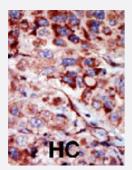
Catalog # PAB3994 Size 400 uL

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



Product Information

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 shoul d be handled by trained staff only.

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.

Enzyme-linked Immunoabsorbent Assay

Gene Info — AK2	
Entrez GeneID	204
Protein Accession#	<u>P54819</u>
Gene Name	AK2
Gene Alias	ADK2
Gene Description	adenylate kinase 2
Omim ID	103020
Gene Ontology	<u>Hyperlink</u>



Product Information

Gene Summary

Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by c atalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozyme s of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes i sozyme 2. Expression of these isozymes is tissue-specific and developmentally regulated. Isozym e 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis. Two t ranscript variants encoding distinct isoforms have been identified for this gene. [provided by RefS eq

Other Designations

ATP-AMP transphosphorylase|OTTHUMP00000004287|OTTHUMP00000004288|adenylate kina se 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