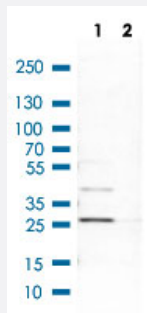


# AK2 polyclonal antibody

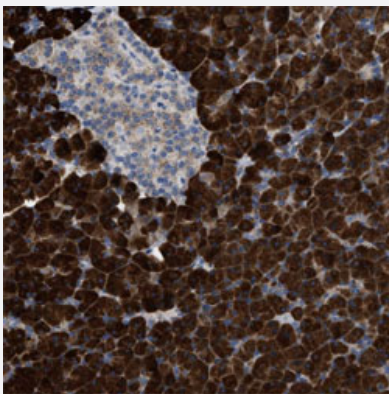
Catalog # PAB31606      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of (1) NIH-3T3 cell lysate (Mouse embryonic fibroblast cells) and (2) NBT-II cell lysate (Rat Wistar bladder tumour cells).



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

Immunohistochemical staining of human pancreas shows strong cytoplasmic positivity in exocrine glandular cells.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against partial recombinant human AK2.
<b>Immunogen</b>	Recombinant protein corresponding to human AK2.
<b>Sequence</b>	LAENFCVCHLATGDMMLRAMVASGSELGKKLKATMDAGKLVSDVMVELIEKNLETPLCCKNGFLL DGFPRTVRQAEMLDDLMEKRKEKLDVIEFSIPDSLLIRR
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat

Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-500) Western Blot (1:100-250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% 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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## Gene Info — AK2

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

## Pathway

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