

**ADK Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7091b**

**Specification**

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**ADK Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P55263</a>
Other Accession	<a href="#">NP_006712</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>322-352</b>

**ADK Antibody (C-term) - Additional Information**

**Gene ID** 132

**Other Names**

Adenosine kinase, AK, Adenosine 5'-phosphotransferase, ADK

**Target/Specificity**

This ADK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 322-352 amino acids from the C-terminal region of human ADK.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ADK Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ADK Antibody (C-term) - Protein Information**

**Name** ADK ([HGNC:257](#))

**Function** Catalyzes the phosphorylation of the purine nucleoside adenosine at the 5' position in an ATP-dependent manner. Serves as a potential regulator of concentrations of extracellular

adenosine and intracellular adenine nucleotides.

#### Cellular Location

[Isoform 1]: Nucleus

#### Tissue Location

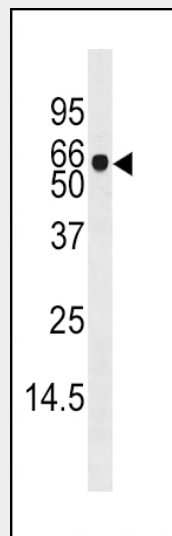
Widely expressed. Highest level in placenta, liver, muscle and kidney.

### ADK Antibody (C-term) - Protocols

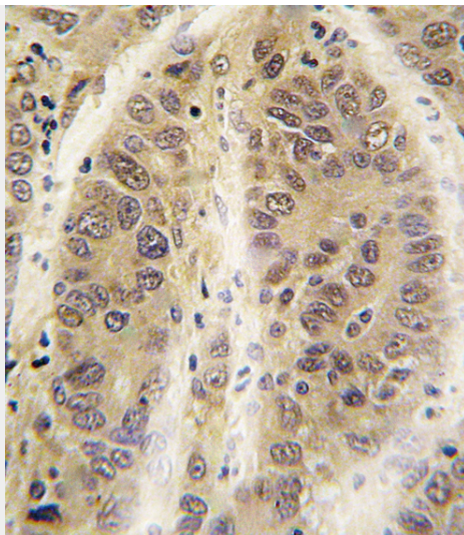
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ADK Antibody (C-term) - Images



Western blot analysis of anti-ADK Pab (Cat. #AP7091b) in mouse liver tissue lysate (35ug/lane). ADK(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with ADK antibody (C-term) (Cat.#AP7091b), 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.

#### **ADK Antibody (C-term) - Background**

Adenosine kinase is an abundant enzyme in mammalian tissues. The enzyme catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents. Alternative splicing results in two transcript variants encoding different isoforms. Both isoforms of the enzyme phosphorylate adenosine with identical kinetics and both require Mg<sup>2+</sup> for activity.

#### **ADK Antibody (C-term) - References**

Szkotak, A.J., et al., J. Membr. Biol. 192(3):169-179 (2003). Singh, B., et al., DNA Cell Biol. 20(1):53-65 (2001). Van Rompay, A.R., et al., Eur. J. Biochem. 261(2):509-517 (1999). Mathews, I.I., et al., Biochemistry 37(45):15607-15620 (1998). McNally, T., et al., Biochem. Biophys. Res. Commun. 231(3):645-650 (1997).

#### **ADK Antibody (C-term) - Citations**

- [Adenosine kinase inhibition selectively promotes rodent and porcine islet  \$\beta\$ -cell replication.](#)