

Datasheet for ABIN391132
anti-ADK antibody (C-Term)



[Go to Product page](#)

2 Images **1** Publication

Overview

Quantity:	400 µL
Target:	ADK
Binding Specificity:	AA 322-352, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADK antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	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.
Clone:	RB05395
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ADK
Alternative Name:	ADK (ADK Products)

Target Details

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 ²⁺ for activity.
Molecular Weight:	40545
Gene ID:	132
NCBI Accession:	NP_001114 , NP_001189378 , NP_001189379 , NP_006712
UniProt:	P55263
Pathways:	Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

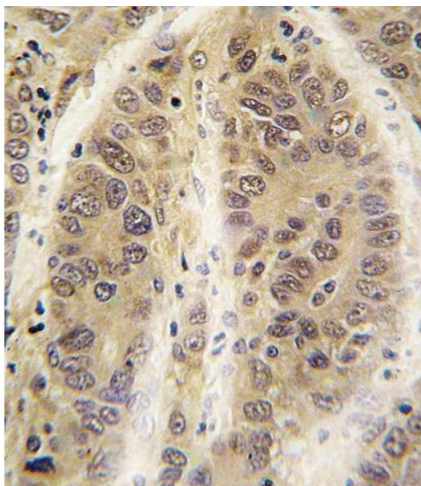
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

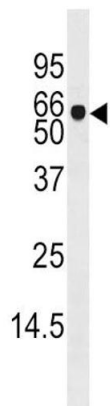
Product cited in: Annes, Ryu, Lam, Carolan, Utz, Hollister-Lock, Arvanites, Rubin, Weir, Melton: "Adenosine kinase inhibition selectively promotes rodent and porcine islet β -cell replication." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 109, Issue 10, pp. 3915-20, (2012) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with ADK antibody (C-term) (ABIN391132 and ABIN2841255), 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.



Western Blotting

Image 2. Western blot analysis of anti-ADK Pab (ABIN391132 and ABIN2841255) in mouse liver tissue lysate (35 μ g/lane). ADK (arrow) was detected using the purified Pab.