

Datasheet for ABIN391131
anti-ADK antibody (N-Term)



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1 Image

Overview

Quantity:	400 µL
Target:	ADK
Binding Specificity:	AA 35-65, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADK antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This ADK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-65 amino acids from the N-terminal region of human ADK.
Clone:	RB05253-05254
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ADK
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Target Details

Alternative Name:	ADK (ADK Products)
Background:	<p>Adenosine kinase (ATP:adenosine 5-prime-phosphotransferase) is an abundant enzyme in mammalian tissues that catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a potentially important 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 ADK could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as antiinflammatory agents. The encoded protein does not present any sequence similarities to other well-characterized mammalian nucleoside kinases. In contrast, 2 regions were identified with significant sequence identity to microbial ribokinase and fructokinases and a bacterial inosine/guanosine kinase. Thus, ADK is a structurally distinct mammalian nucleoside kinase that appears to be akin to sugar kinases of microbial origin. Animal studies have demonstrated that a deficiency of adenosine metabolism a powerful contributor to the development of neonatal hepatic steatosis, providing a model for the rapid development of postnatally lethal fatty liver.</p>
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
Restrictions:	For Research Use only

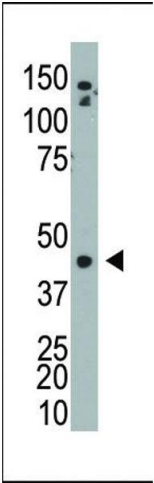
Handling

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.

Handling

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

Images



Western Blotting

Image 1. The anti-ADK Pab (ABIN391131 and ABIN2841254) is used in Western blot to detect ADK in mouse bladder tissue lysate.