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**Product Name: ADK Rabbit Polyclonal Antibody****Catalog #: APRab06638**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	40kDa

**Antigen Information**

<b>Gene Name</b>	ADK
<b>Alternative Names</b>	ADK; Adenosine kinase; AK; Adenosine 5'-phosphotransferase
<b>Gene ID</b>	132.0
<b>SwissProt ID</b>	P55263
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ADK. AA range:1-50

**Background**

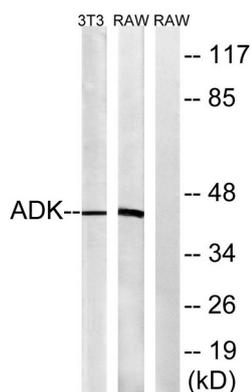
This gene an enzyme which catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a

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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011],catalytic activity:ATP + adenosine = ADP + AMP.,cofactor:Binds 3 magnesium ions per subunit.,function:ATP dependent phosphorylation of adenosine and other related nucleoside analogs to monophosphate derivatives. Serves as a potential regulator of concentrations of extracellular adenosine and intracellular adenine nucleotides.,pathway:Purine metabolism; AMP biosynthesis via salvage pathway; AMP from adenosine: step 1/1.,similarity:Belongs to the carbohydrate kinase pfkB family.,subunit:Monomer.,tissue specificity:Widely expressed. Highest level in placenta, liver, muscle and kidney.,

## Research Area

Purine metabolism;

## Image Data



Western blot analysis of lysates from RAW264.7 and NIH/3T3 cells, using ADK Antibody. The lane on the right is blocked with the synthesized peptide.