Product Name: ADK Rabbit Polyclonal Antibody
Catalog #: APRab06638

Summary

Production Name	ADK Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

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

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:20000.
Molecular Weight	40kD

Background

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

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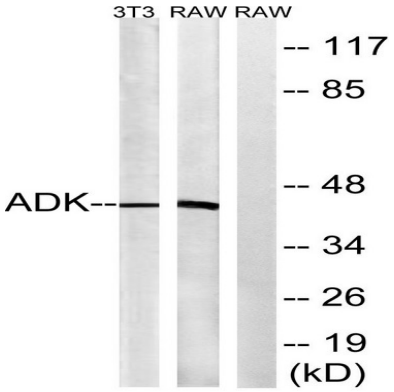
regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine 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.

Note

For research use only.