



ADK Polyclonal Antibody

Catalog No	YP-Ab-14647
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;ELISA
Gene Name	ADK
Immunogen	The antiserum was produced against synthesized peptide derived from human ADK. AA range:1-50
Specificity	ADK Polyclonal Antibody detects endogenous levels of ADK protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Adenosine 5 phosphotransferase;adenosine kinase;ADK;AK;Adenosine 5'-phosphotransferase
Observed Band	40kD
Calculated Molecular Weight	40kD
Cell Pathway	[Isoform 1]: Nucleus .; [Isoform 2]: Cytoplasm .
Tissue Specificity	Widely expressed. Highest level in placenta, liver, muscle and kidney.
Function	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.,



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],

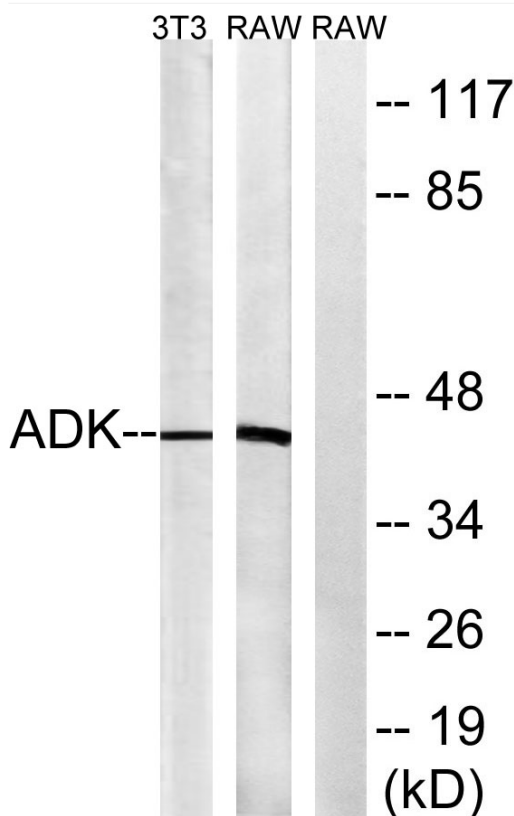
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



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.