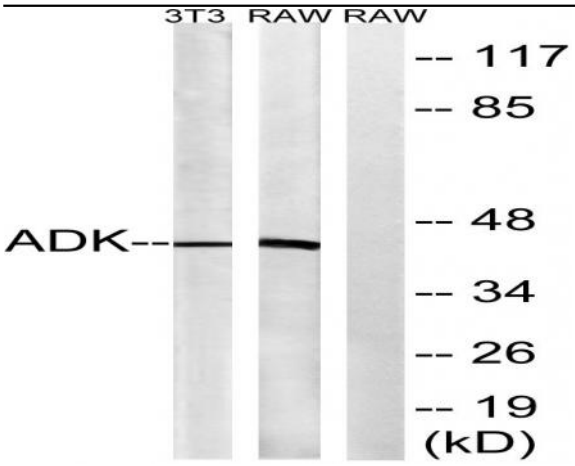
Best Tools for immunology Research

ADK Polyclonal Antibody

Catalog No :	YT0135
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;ELISA
Target :	ADK
Fields :	>>Purine metabolism;>>Metabolic pathways;>>Nucleotide metabolism
Gene Name :	ADK
Protein Name :	Adenosine kinase
Human Gene Id :	132
Human Swiss Prot No :	P55263
Mouse Gene Id :	11534
Mouse Swiss Prot No :	P55264
Rat Gene Id :	25368
Rat Swiss Prot No :	Q64640
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
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	40kD
Cell Pathway :	Purine metabolism;
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],
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.,
Subcellular Location :	[Isoform 1]: Nucleus .; [Isoform 2]: Cytoplasm .
Expression :	Widely expressed. Highest level in placenta, liver, muscle and kidney.

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.