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anti-Adenylate Kinase 1 antibody (N-Term)

Images



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Overview		
Quantity:	400 μL	
Target:	Adenylate Kinase 1 (AK1)	
Binding Specificity:	AA 30-59, N-Term	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This Adenylate Kinase 1 antibody is un-conjugated	
Application:	Western Blotting (WB)	
Product Details		
Immunogen:	This AK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic	
	peptide between 30-59 amino acids from the N-terminal region of human AK1.	
Clone:	RB4079-4080	
Isotype:	lg Fraction	
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by	
	dialysis against PBS.	
Target Details		
Target:	Adenylate Kinase 1 (AK1)	
Alternative Name:	AK1 (AK1 Products)	

Target Details

Background:

Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate group among adinine nucleotides. Three isozymes of adenylate kinase have been identified in vertebrates, adenylate isozyme 1 (AK1), 2 (AK2) and 3 (AK3). AK1 is found in the cytosol of skeletal muscle, brain and erythrocytes, whereas AK2 and AK3 are found in the mitochondria of other tissues including liver and heart. AK1 was identified because of its association with a rare genetic disorder causing nonspherocytic hemolytic anemia where a mutation in the AK1 gene was found to reduce the catalytic activity of the enzyme.

Molecular Weight:

21635

Gene ID:

203

NCBI Accession:

NP_000467

UniProt:

P00568

Pathways:

Nucleotide Phosphorylation, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:

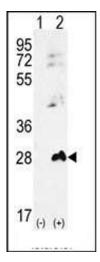
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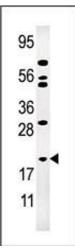
Restrictions:

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.	
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	





Western Blotting

Image 1. Western blot analysis of AK1 (arrow) using rabbit polyclonal AK1 Antibody (S45) (ABIN392794 and ABIN2842231). 293 cell lysates (2 μg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the AK1 gene.

Western Blotting

Image 2. Western blot analysis of anti-AK1 Pab (ABIN392794 and ABIN2842231) in Jurkat cell line lysate (35 μ g/lane). AK1(arrow) was detected using the purified Pab.