Product Name: AK1 Rabbit Polyclonal Antibody
Catalog #: APRab06710

Summary

Production Name	AK1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,IF,ELISA
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	AK1
Alternative Names	AK1; Adenylate kinase isoenzyme 1; AK 1; ATP-AMP transphosphorylase 1; Myokinase
Gene ID	203.0
SwissProt ID	P00568.The antiserum was produced against synthesized peptide derived from human KAD1 . AA range:101-150

Application

Dilution Ratio	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Molecular Weight	

Background

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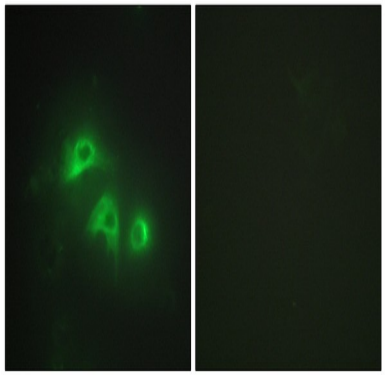
adenylate kinase 1(AK1) Homo sapiens This gene encodes an adenylate kinase enzyme involved in energy metabolism and homeostasis of cellular adenine nucleotide ratios in different intracellular compartments. This gene is highly expressed in skeletal muscle, brain and erythrocytes. Certain mutations in this gene resulting in a functionally inadequate enzyme are associated with a rare genetic disorder causing nonspherocytic hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015],catalytic activity:ATP + AMP = 2 ADP.,disease:Defects in AK1 are the cause of hemolytic anemia due to adenylate kinase deficiency [MIM:612631].,function:Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Small ubiquitous enzyme involved in energy metabolism and nucleotide synthesis that is essential for maintenance and cell growth.,online information:Adenylate kinase entry,polymorphism:This enzyme represents the most common of at least five alleles.,similarity:Belongs to the adenylate kinase family.,subunit:Monomer.,

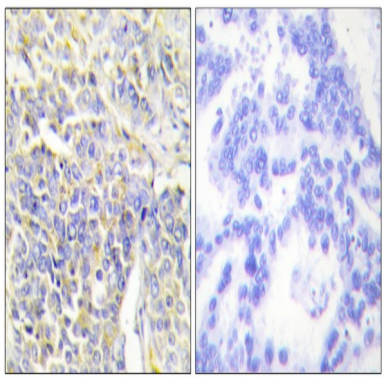
Research Area

Purine metabolism;

Image Data



Immunofluorescence analysis of HepG2 cells, using KAD1 Antibody . The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using KAD1 Antibody . The picture on the right is blocked with the synthesized peptide.

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Note

For research use only.