

AK1 Polyclonal Antibody

Catalog No: YT0156

Reactivity: Human; Mouse; Rat

Applications: IHC;IF;ELISA

Target: AK1

Fields: >>Purine metabolism;>>Thiamine metabolism;>>Metabolic

pathways;>>Nucleotide metabolism;>>Biosynthesis of cofactors

Gene Name: AK1

Protein Name: Adenylate kinase isoenzyme 1

P00568

Q9R0Y5

Human Gene Id: 203

Human Swiss Prot

No:

Mouse Gene Id: 11636

Mouse Swiss Prot

No:

Rat Gene Id: 24183

Rat Swiss Prot No: P39069

Immunogen : The antiserum was produced against synthesized peptide derived from human

KAD1 . AA range:101-150

Specificity: AK1 Polyclonal Antibody detects endogenous levels of AK1 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. 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)

Molecularweight: 22kD

Cell Pathway: Purine metabolism;

Background: 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],

Function: 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.,

Subcellular Location:

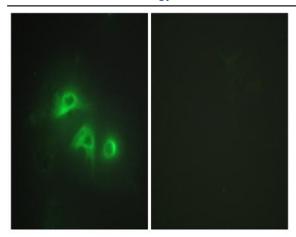
Cytoplasm.

Chondrosarcoma Lung Metastasis, Colon, Fetal brain cortex, Retina, Skeletal **Expression:**

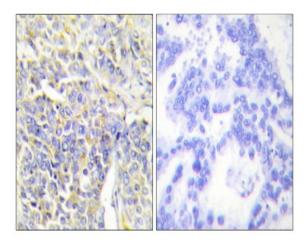
muscle, Synovial mem

Products Images

2/3



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.