

Product datasheet

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ARG54901 anti-AK1 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes AK1

Tested Reactivity Hu, Ms

Tested Application ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name AK1

Species Human

Immunogen Recombinant protein of Human AK1 (NP_000467.1)

Conjugation Un-conjugated

Alternate Names Myokinase; Adenylate kinase isoenzyme 1; ATP-AMP transphosphorylase 1; ATP:AMP

phosphotransferase; EC 2.7.4.6; HTL-S-58j; EC 2.7.4.3; Adenylate monophosphate kinase; AK 1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse heart	

Properties

Form

Purification Affinity purification with immunogen.

Liquid

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 11636 Mouse</u>

GeneID: 203 Human

Swiss-port # P00568 Human

Swiss-port # Q9R0Y5 Mouse

Gene Symbol AK1

Gene Full Name adenylate kinase 1

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. [provided by RefSeq, Jul 2008]

Function Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Also displays

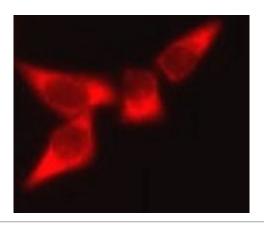
broad nucleoside diphosphate kinase activity. Plays an important role in cellular energy homeostasis

and in adenine nucleotide metabolism. [UniProt]

Research Area Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody

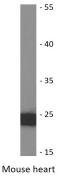
Calculated Mw 22 kDa

Images



ARG54901 anti-AK1 antibody ICC/IF image

Immunofluorescence: A549 cells stained with ARG54901 anti-AK1 antibody.



ARG54901 anti-AK1 antibody WB image

Western blot: Mouse heart lysate stained with ARG54901 anti-AK1 antibody.