

ARG57175 anti-AK1 antibody [7E9]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [7E9] recognizes AK1
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	7E9
Isotype	IgG1, kappa
Target Name	AK1
Species	Human
Immunogen	Recombinant fragment around aa. 1-194 of Human AK1
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
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

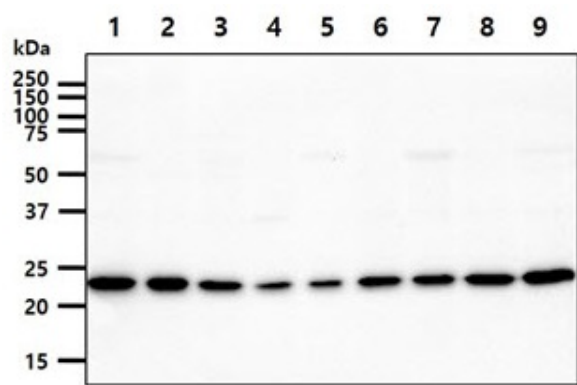
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
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	GeneID: 203 Human Swiss-port # P00568 Human
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]
Calculated Mw	22 kDa

Images



ARG57175 anti-AK1 antibody [7E9] WB image

Western blot: 40 µg of 1) HeLa, 2) U87-MG, 3) K562, 4) 293T, 5) HepG2, 6) A549, 7) MCF7, 8) SK-OV-3, and 9) PC3 cell lysates stained with ARG57175 anti-AK1 antibody [7E9] at 1:1000.