

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for TA500320AM

Adenylate Kinase 1 (AK1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI19G4]

Product data:

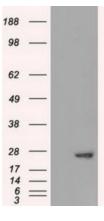
Product Type:	Primary Antibodies
Clone Name:	OTI19G4
Applications:	FC, WB
Recommended Dilution:	WB 1:500~1000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human AK1 (NP_000467) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	21.6 kDa
Gene Name:	adenylate kinase 1
Database Link:	<u>NP_000467</u> <u>Entrez Gene 11636 MouseEntrez Gene 24183 RatEntrez Gene 203 Human</u> <u>P00568</u>



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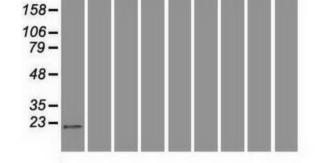
	Adenylate Kinase 1 (AK1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI19G4] – TA500320AM
Background:	Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate group among adinine nucleotides. 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.
Synonyms:	HTL-S-58j
Protein Families:	Druggable Genome
Protein Pathway	s: Metabolic pathways, Purine metabolism

Product images:



HepG2 HeLa HT29 A549 COS7 Jurkat MDCK PC12 MCF7

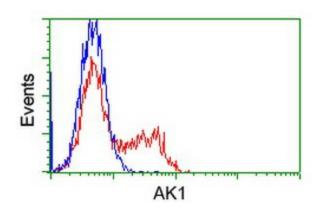
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AK1 ([RC215130], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AK1. Positive lysates [LY400171] (100ug) and [LC400171] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-AK1 monoclonal antibody.

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HEK293T cells transfected with either [RC215130] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-AK1 antibody ([TA500320]), and then analyzed by flow cytometry.

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