

## Product datasheet for TA500320BM

### OriGene Technologies, Inc.

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## Adenylate Kinase 1 (AK1) Mouse Monoclonal Antibody (HRP 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 Isotype: IgG1

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.

**Concentration:** 0.5 mg/ml

**Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: HRP

**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: NP 000467

Entrez Gene 11636 MouseEntrez Gene 24183 RatEntrez Gene 203 Human

P00568



# Adenylate Kinase 1 (AK1) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI19G4] – TA500320BM

Background:

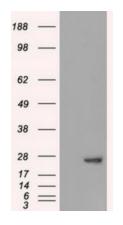
Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate group among adinine nucleotides. Three isozymes of adenylate kinase have been identified in vertebrates, adenylate isozyme 1 (AK1), 2 (AK2) and 3 (AK3). 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

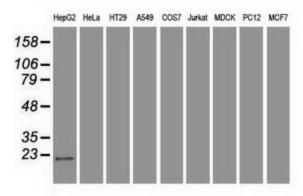
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Purine metabolism

## **Product images:**

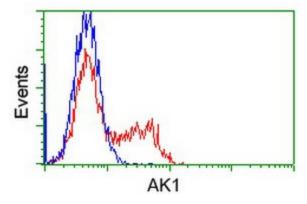


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AK1 ([RC215130], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AK1. Positive lysates [LY400171] (100ug) and [LC400171]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



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





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.