

AK1 Antibody

Catalog No: #32235

Package Size: #32235-1 50ul #32235-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

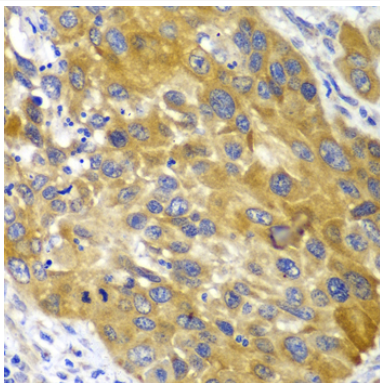
Description

Product Name	AK1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse
Specificity	The antibody detects endogenous level of total AK1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human AK1.
Target Name	AK1
Other Names	AK1;
Accession No.	Swiss-Prot:P00568NCBI Gene ID:203
Uniprot	P00568
GeneID	203;
SDS-PAGE MW	22KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

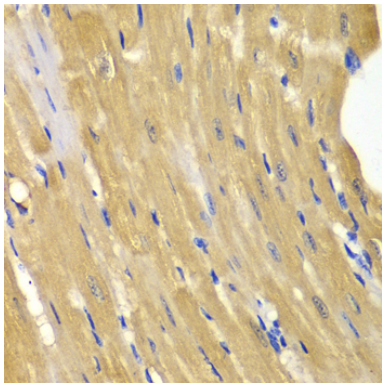
Application Details

WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

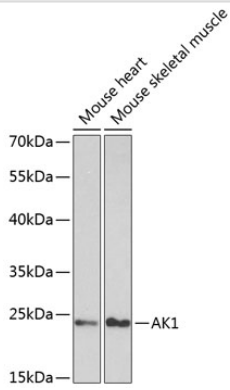
Images



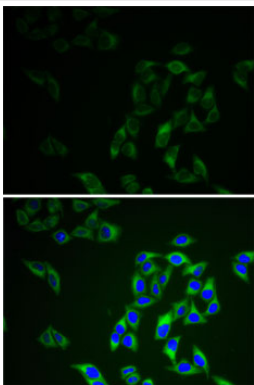
Immunohistochemistry of paraffin-embedded human esophageal cancer using AK1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse heart using AK1 at dilution of 1:100 (40x lens).



Western blot analysis of extracts of various cell lines, using AK1 at 1:1000 dilution.



Immunofluorescence analysis of HeLa cells using AK1 . Blue: DAPI for nuclear staining.

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.

Note: This product is for in vitro research use only