

Rabbit anti-Human, Mouse AK1 Polyclonal Antibody | anti-AK1 antibody

AK1 Polyclonal Antibody

CATALOG # AAA37044	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot
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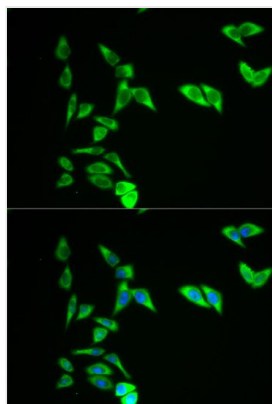
PRODUCT SYNONYMS

AK1; Polyclonal Antibody; AK1 Polyclonal Antibody; anti-AK1 antibody

PRODUCT SPECIFICATIONS

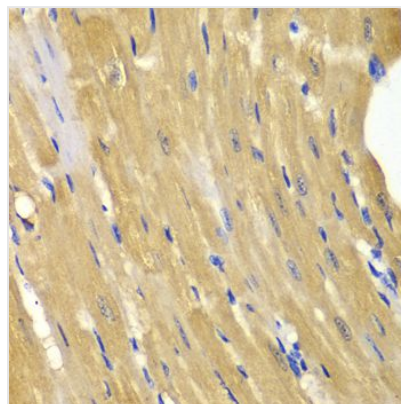
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	194
Applicable Applications for anti-AK1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human AK1
Calculated Molecular Weight	22kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

IMAGES



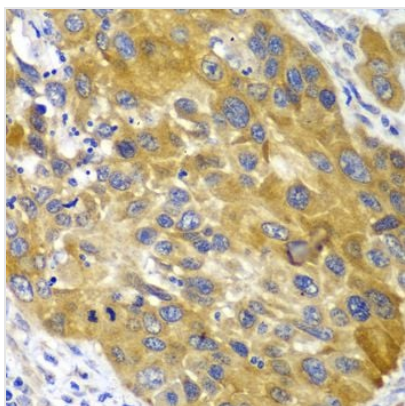
IF (Immunofluorescence)

Immunofluorescence analysis of A549 cells using AK1 antibody. Blue: DAPI for nuclear staining.



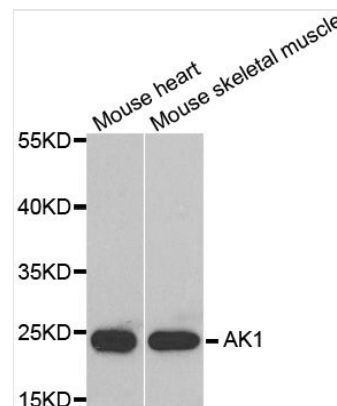
IHC (Immunohistochemistry)

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



IHC (Immunohistochemistry)

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



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using AK1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-AK1 antibody	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]
Product Categories/Family for anti-AK1 antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	20178288
NCBI GeneID	203
UniProt Accession #	P00568; Q9BVK9; Q9UQC7
Molecular Weight	194
NCBI Official Full Name	Adenylate kinase isoenzyme 1
NCBI Official Synonym Full Names	adenylate kinase 1
NCBI Official Symbol	AK1
NCBI Official Synonym Symbols	HTL-S-58j
NCBI Protein Information	adenylate kinase isoenzyme 1; AK1; AK 1; myokinase; ATP:AMP phosphotransferase; ATP-AMP transphosphorylase 1; adenylate monophosphate kinase; testis secretory sperm binding protein Li 58j
UniProt Protein Name	Adenylate kinase isoenzyme 1
UniProt Gene Name	AK1
UniProt Entry Name	KAD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ak1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/37044>