Mouse AK1 Monoclonal Antibody | anti-AK1 antibody

AK1 antibody

CATALOG #	HOST	APPLICATIONS
AAA106195	**Mouse**	**Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

AK1; Monoclonal Antibody; AK1 antibody; Monoclonal AK1; Anti-AK1; Adenylate Kinase 1; AK 1; AK-1; anti-AK1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	8A1
Purity/Purification	AK1 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	194
Applicable Applications for anti-AK1 antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	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.
Cross-Reactivity	Human, Monkey
Immunogen	AK1 antibody was raised in mouse using a full length recombinant protein of human AK1 (NP_000467) produced in HEK293T cells, as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES

IF (Immunofluorescence)
Immunofluorescent staining of COS7 cells transiently transfected with recombinant AK1 protein using AK1 antibody

WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant AK1 protein (Right) or empty vector (Left) detected with AK1 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-AK1 antibody	Mouse monoclonal AK1 antibody
Product Categories/Family for anti-AK1 antibody	Proteases; Inhibitors; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502011
NCBI GeneID	203
NCBI Accession #	NP_000467
NCBI GenBank Nucleotide #	NM_000476.2
UniProt Accession #	P00568; Q9BVK9; Q9UQC7
Molecular Weight	21,635 Da
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
UniProt Protein Name	Adenylate kinase isoenzyme 1
UniProt Gene Name	**AK1**
UniProt Synonym Gene Names	AK 1
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/monoclonal/ak1-antibody-clone-8a1-western-blot-immunofluorescence-flow-cytometry-elisa/106195