

Mouse anti-Human AK2 Monoclonal Antibody | anti-AK2 antibody

AK2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48206	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

AK2; Monoclonal Antibody; AK2 antibody; ADK2; Adenylate kinase 2; Adenylate kinase isoenzyme 2; ATP AMP transphosphorylase; EC 2.7.4.3; anti-AK2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT7E7
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	239
Applicable Applications for anti-AK2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human AK2 (1-239aa) purified from E. coli
Clone Note	Anti-human AK2 mAb, clone AT7E7, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human AK2 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of AK2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human AK2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The Tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AK2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Kidney tissue lysate Lane 2.: Liver tissue lysate The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AK2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HepG2 cell lysate Lane 2.: NIH/3T3 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-AK2 antibody	Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes isozyme 2. Expression of these isozymes is tissue-specific and developmentally regulated. Isozyme 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis. Mutations in this gene are the cause of reticular dysgenesis. Alternate splicing results in multiple transcript variants.
Product Categories/Family for anti-AK2 antibody	Apoptosis
References	Kim D Pruitt., et al. (2012) Nucleic Acids Res. 40 (Database issue): D130-D135.; Lagresle-Peyrou C., et al. (2009) Nat Genet. 41 (1): 106-11.; Lee Y., et al. (1998) J. Biochem. 123 (1): 47-54.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502013
NCBI GeneID	204
NCBI Accession #	NP_001616
NCBI GenBank Nucleotide #	NM_001625.3
UniProt Accession #	P54819; Q16856; Q5EB54; Q5TIF7; Q8TCY2; Q8TCY3; A8K6L1; B4DHH7; B4DL64
Molecular Weight	21,636 Da
NCBI Official Full Name	adenylate kinase 2, mitochondrial isoform a
NCBI Official Synonym Full Names	adenylate kinase 2
NCBI Official Symbol	AK2
NCBI Official Synonym Symbols	ADK2
NCBI Protein Information	adenylate kinase 2, mitochondrial
UniProt Protein Name	Adenylate kinase 2, mitochondrial
UniProt Gene Name	AK2
UniProt Synonym Gene Names	AK 2

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/ak2-antibody-clone-at7e7-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48206>