

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

ADK antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48095	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

ADK; Monoclonal Antibody; ADK antibody; AK; adenosine kinase; adenosine 5'-phosphotransferase; ; anti-ADK antibody

PRODUCT SPECIFICATIONS

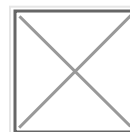
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT4F8
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	362
Applicable Applications for anti-ADK antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human ADK (22-362aa) purified from E. coli
Clone Note	Anti-human ADK mAb, clone AT4F8, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ADK 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 ADK in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ADK antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (35ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ADK (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-ADK antibody	Adenosine kinase (ADK) is the key regulator of adenosine metabolism. Because of the manifold receptor-dependent actions of adenosine, tight regulation of adenosine levels is crucial. The intracellular and extracellular pools of adenosine are in dynamic exchange by equilibrative and concentrative nucleoside transporters, so extracellular concentrations of adenosine are regulated by interplay of these transporters with intracellular and extracellular enzymes of adenosine metabolism. Thus, the extracellular concentration of adenosine is enhanced by inhibition of equilibrative nucleoside transporters such as S- (4-nitrobenzyl)-6-thioinosine and cannabidiol and, stimulation of extracellular ATP breakdown and inhibition of intracellular adenosine removal.
Product Categories/Family for anti-ADK antibody	Signal Transduction
References	Mathews II, et al. (1998). Biochemistry 10;37 (45):15607-20.; Lindberg B, Klenow H, Hansen K (1967). J. Biol. Chem. 242 (3): 350-6.; CAPUTTO R (1951). J. Biol. Chem. 189 (2): 801-14.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32484975
NCBI GeneID	132
NCBI Accession #	NP_006712
NCBI GenBank Nucleotide #	NM_006721.3
UniProt Accession #	P55263 ; O00741 ; O00742 ; Q16710 ; Q5JQ10 ; Q5JQ11 ; Q9BTN2 ; B7Z783 ; B7Z800
Molecular Weight	36,580 Da
NCBI Official Full Name	adenosine kinase isoform b
NCBI Official Synonym Full Names	adenosine kinase
NCBI Official Symbol	ADK
NCBI Official Synonym Symbols	AK
NCBI Protein Information	adenosine kinase
UniProt Protein Name	Adenosine kinase
UniProt Gene Name	ADK
UniProt Synonym Gene Names	AK

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/adk-antibody-clone-at4f8-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/48095>