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Human AK1 antibody

Catalog Number: ATGA0447

PRODUCT INFORMATION

Catalog number

ATGA0447

Clone No.

AT7E9

Product type

Monoclonal Antibody

UnitProt No.

P00568

NCBI Accession No.

NP 000467

Alternative Names

Adenylate kinase isoenzyme1, ATP-AMP transphosphorylase 1, Myokinase, Adenylate kinase 1, ATP:AMP phosphotransferase, Adenylate monophosphate kinase

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human AK1 (1-194aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

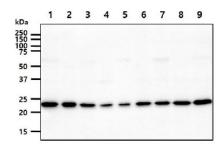
AK1 is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of the terminal phosphate group between ATP and AMP. This protein is found in the cytosol of skeletal muscle, brain and erythrocytes. It is a small ubiquitous enzyme which is essential for maintenance and cell growth. Defects in AK1 are the cause of a form of hemolytic anemia.

General References

Terzic A., et al. (2007) J Biol Chem. 282(43): 31366-72. Morelli A., et al. (2007) Curr Eye Res. 32(3): 249-57.

DATA

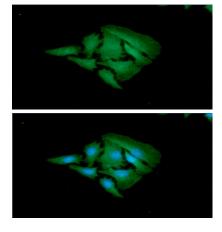
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AK1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: U87-MG cell lysate Lane 3.: K562 cell lysate Lane 4.: 293T cell lysate Lane 5.: HepG2 cell lysate Lane 6.: A549 cell lysate Lane 7.: MCF7cell lysate Lane 8.: SK-OV-3 cell lysate Lane 9.: PC3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



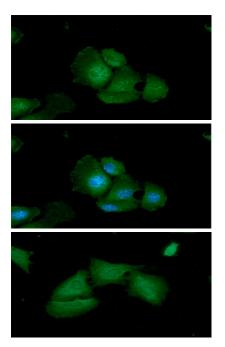
ICC/IF analysis of AK1 in HeLa cell line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human AK1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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ICC/IF analysis of AK1 in Hep3B cell line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human AK1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

ICC/IF analysis of AK1 in A549 cell line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human AK1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

