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Human AK2 antibody

Catalog Number: ATGA0393

PRODUCT INFORMATION

Catalog number

ATGA0393

Clone No.

AT7E7

Product type

Monoclonal Antibody

UnitProt No.

P54819

NCBI Accession No.

NP 001616

Alternative Names

Adenylate kinase 2, Mitochondrial Adenylate kinase 2, ATP-AMP transphosphorylase 2, ATP:AMP phosphotransferase, Adenylate monophosphate kinase, ADK2

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 AK2 (1-239aa) 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 and ICC/IF analysis 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

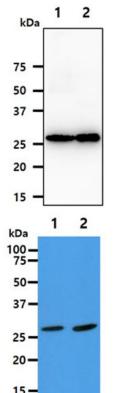
Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes isozyme 2. 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.

General 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.

DATA

Western blot analysis (WB)



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.

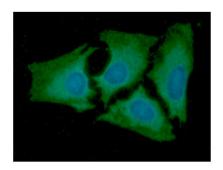
Lane 1.: HepG2 cell lysate Lane 2.: NIH/3T3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of AK2 in HeLa cells. The cell was stained with ATGA0393 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

