Product information



Monoclonal anti-human AK2 antibody (clone AT7E7)

Mouse IgG₁, κ

Cat. No. IBATGA0393

Immunogen: Recombinant human AK2 (1-239aa) purified from E. coli

NCBI Accession No.: NP 001616

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: 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.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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.

Application: ELISA, WB, Flow cytometry, ICC/IF

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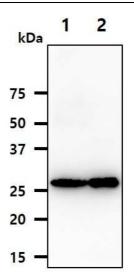
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Western blot analysis

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



1 2 100 -75 -50 -37 -25 -20 -15 -

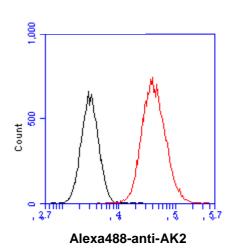
Western blot analysis

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

Flow cytometry

Flow cytometry analysis of AK2 in HeLa cell line, staining at 2-5ug for 1x10⁶cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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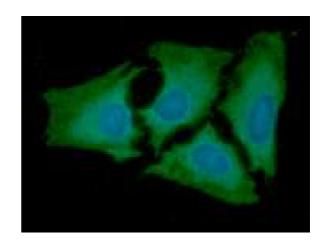
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ICC/IF analysis

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).



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.

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