Product information

Monoclonal anti-human ADK antibody (clone AT4F8)

Mouse IgG_1, κ

Cat. No. IBATGA0206

Immunogen: Recombinant human ADK (22-362aa) purified from *E. coli*

NCBI Accession No.: NP_006712

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: 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.

Description: 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 theses 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.

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 +4°C. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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

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

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com

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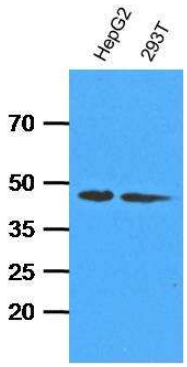
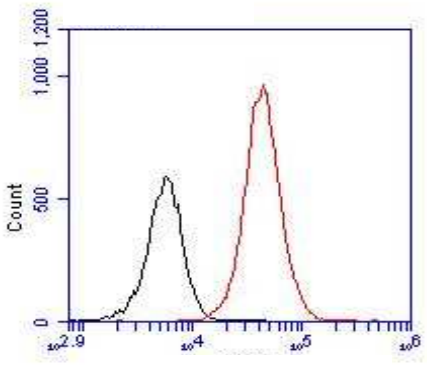
Western blot analysis

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.



Flow cytometry

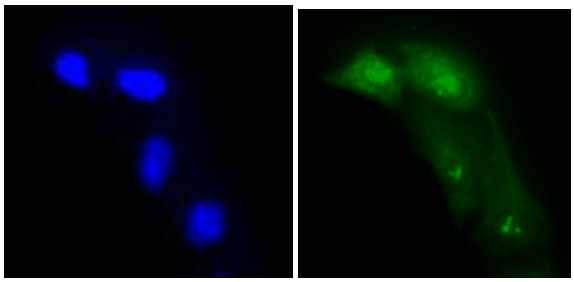
Flow cytometry analysis of ADK in A549 cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-ADK

ICC/IF analysis

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).



General references:

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Lindberg B, Klenow H, Hansen K (1967). *J. Biol. Chem.* **242** (3): 350–6.

CAPUTTO R (1951). *J. Biol. Chem.* **189** (2): 801–14.

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