

Monoclonal anti-human AK1 antibody (clone AT7E9)

Mouse IgG₁, κ

Cat. No. IBATGA0447

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

NCBI Accession No.: NP_000467

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human AK1 mAb, clone AT7E9, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human AK1 protein.

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.

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

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



Manufactured for:

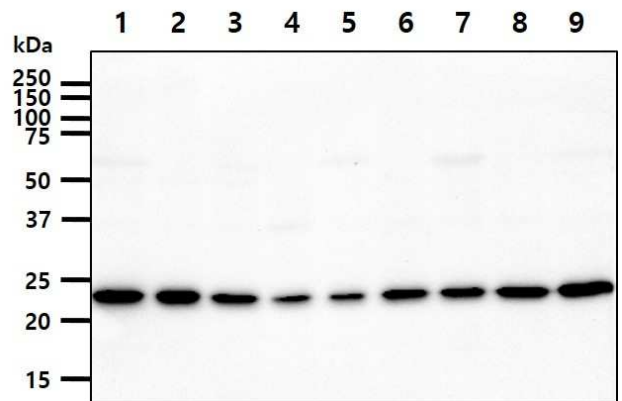
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com

Product information

Western blot analysis

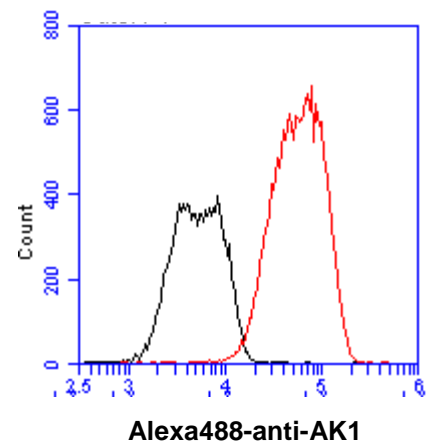
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AK1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- 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.: MCF7 cell lysate
- Lane 8.: SK-OV-3 cell lysate
- Lane 9.: PC3 cell lysate



Flow cytometry

Flow cytometry analysis of AK1 in Hep3B cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

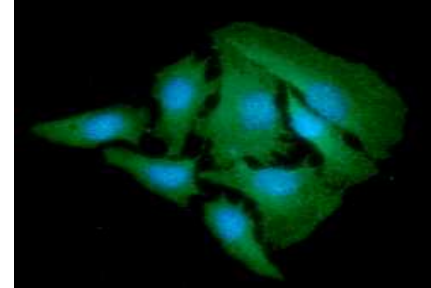
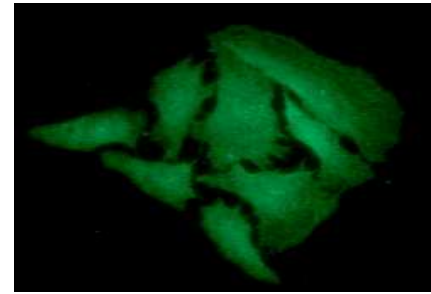


For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Product information

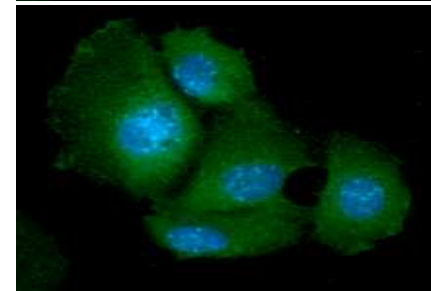
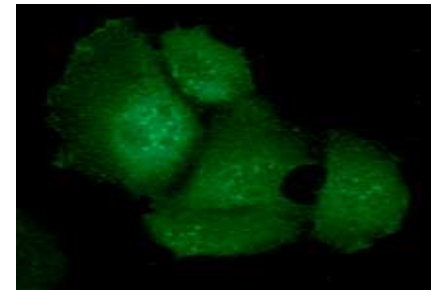
ICC/IF analysis

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).



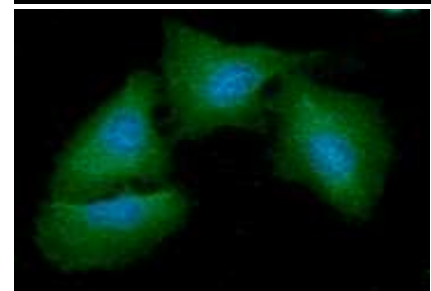
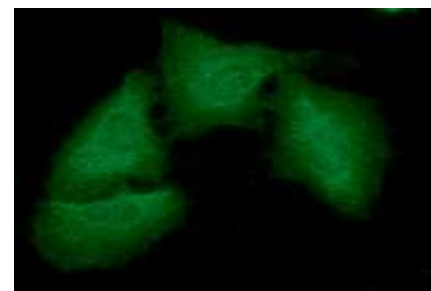
ICC/IF analysis

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

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).



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

Product information

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.

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



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