

Monoclonal anti-human LDHA antibody (clone AT1A4)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0180

Immunogen: Recombinant human LDHA (1-332aa) purified from *E. coli*

NCBI Accession No.: NP_005557

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human LDHA mAb, clone AT1A4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human LDHA protein.

Description: Lactate through lactate dehydrogenase A (LDHA), which is encoded by a target gene of c-Myc and hypoxia-inducible factor (HIF-1). LDHA expression is repressed by SugR in the absence of sugar. Reduction of LDHA causes bioenergetic and oxidative stress leading to cell death. LDHA (LDH-5, M-LDH, or A4), which is the predominant form in skeletal muscle, kinetically favors the conversion of pyruvate to lactate. Therefore, LDH-A is an attractive target for cancer therapy since its expression is largely relegated to skeletal muscle.

Concentration: 1mg/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. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, Flow cytometry 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.

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:

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Product information

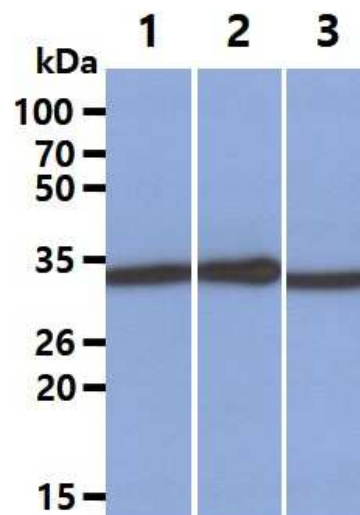
Western blot analysis

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

Lane 1.: Jurkat cell lysate

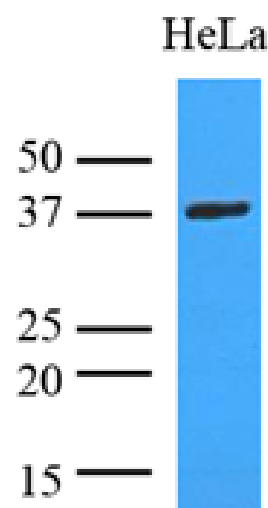
Lane 2.: 293T cell lysate

Lane 3.: A431 cell lysate



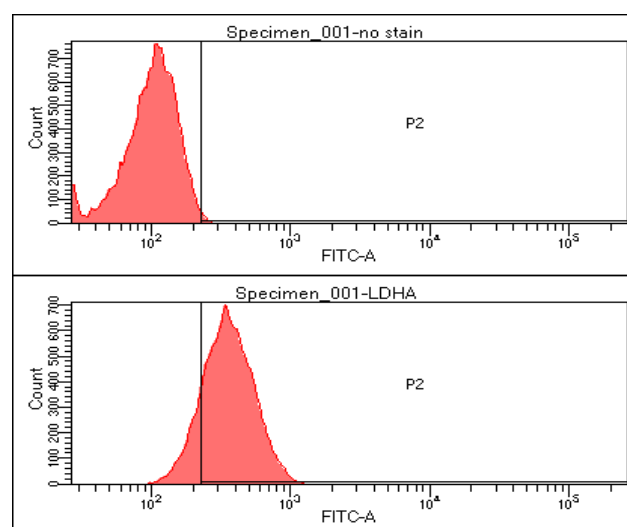
Western blot analysis

The cell lysates of HeLa (35ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human LDHA (1:8000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Flow cytometry

Flow cytometry analysis of LDHA in HeLa cell line, staining at 2-5ug for 1×10^6 cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.

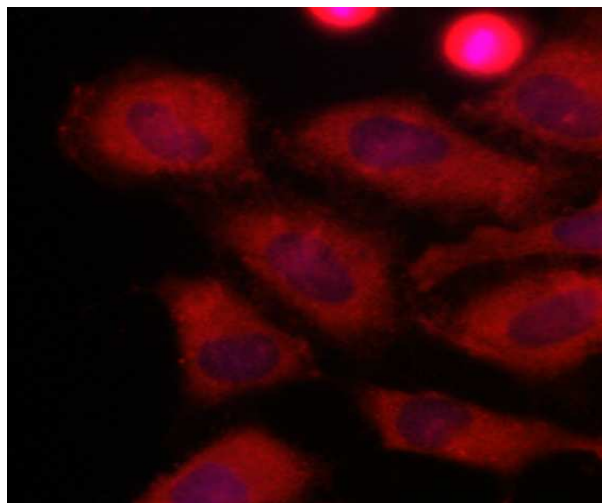


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ICC/IF analysis

Immunofluorescence of human HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and monoclonal anti-human LDHA antibody (1:500) with Texas Red (Red).



General references: Le A., *et al.* (2010) *Proc Natl Acad Sci USA*. **107(5)**: 2037-2042.
Xie H., *et al.* (2009) *Mol Cancer Ther.* **8(3)**: 626-635.
Toyoda K., *et al.* (2010) *J Bacteriol.* **191(13)**: 4251-4258.

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