Product information

Monoclonal anti-human ALDOA antibody (clone AT3F9)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0341

Immunogen: Recombinant human ALDOA (1-364aa) purified from *E. coli*

NCBI Accession No.: NP_908930

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

Clone: Anti-human ALDOA(Aldolase A) mAb, clone AT3F9, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ALDOA protein.

Description: Aldolase (fructose bisphosphate aldolase), a glycolytic enzyme, catalyzes the conversion of fructose 1, 6-bisphosphate to 3-phosphoglyceraldehyde. This ubiquitous enzyme is present as three different isozymes: aldolase A, aldolase B, and aldolase C. Research studies suggest that aldolase A expression potentially differentiates between nonneoplastic liver diseases and hepatocarcinoma. Aldolase A is found in the developing embryo and is produced in even greater amounts in adult muscle. Aldolase A expression is repressed in adult liver, kidney, and intestine and similar to aldolase C levels in brain and other nervous tissue.

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. Recommended dilution range for Western blot analysis is 1:1000. Recommended dilution range for ICC/IF and Flow cytometry is 1:200.

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

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
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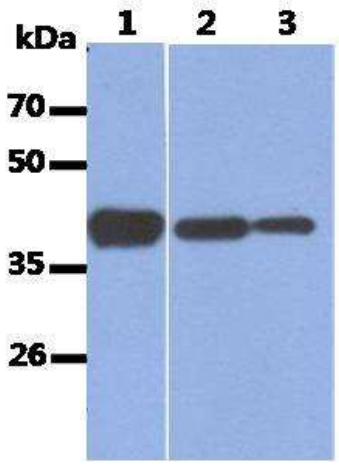
Western blot analysis

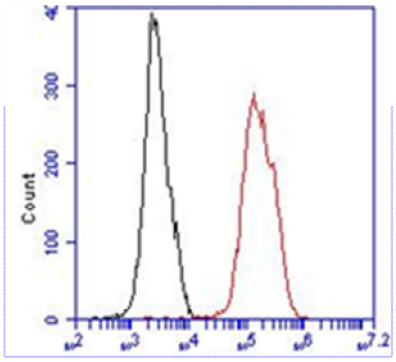
The Recombinant Human ALDOA and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ALDOA antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

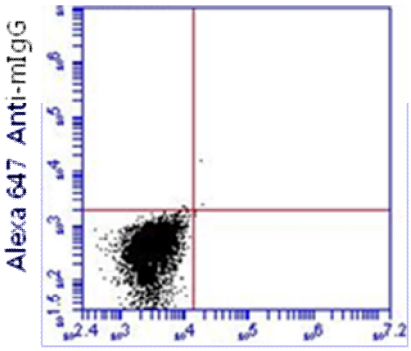


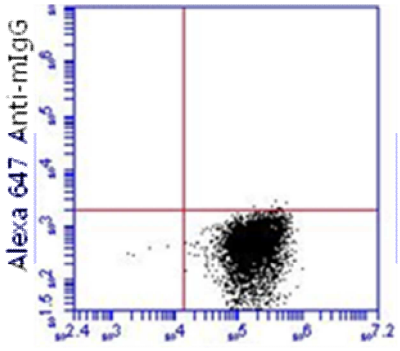
Lane 1.: Recombinant Human ALDOA
Lane 2.: HeLa cell lysate
Lane 3.: HepG2 cell lysate

Flow cytometry

Flow cytometry analysis of ALDOA 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).







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

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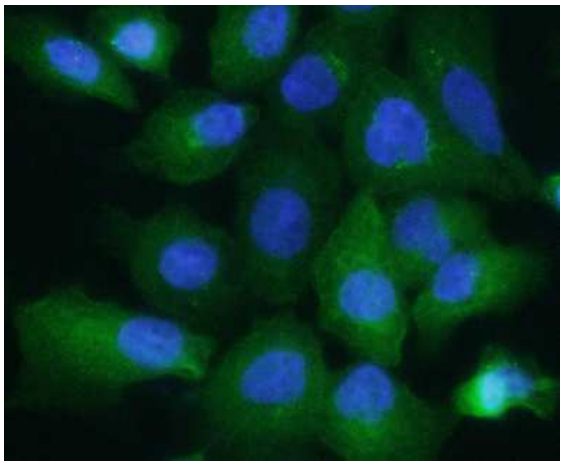
ICC/IF analysis

ICC/IF analysis of ALDOA in A549 cells, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human A549 antibody (1:200) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Castaldo G., *et al*.(2000) *Clin Chem.* **46(7):** 901-906

Long F*., et al*.(2014) *Oncol Rep.* **32(5):** 2031-2037

Caspi M*., et al*.(2014*) Mol Cancer.* **13:** 164

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