

Monoclonal anti-human ALDOC antibody (clone AT2E11)

Mouse IgG₁, κ

Cat. No. IBATGA0397

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

NCBI Accession No.: NP_005156

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human ALDOC mAb, clone AT2E11, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ALDOC protein.

Description: ALDOC, also known as aldolase C, is a member of the class I fructose-biphosphate aldolase family. This protein is a glycolytic enzyme that catalyzes the reversible aldol cleavage of fructose-1,6-biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate or glyceraldehydes respectively. It is expressed specifically in the hippocampus and Purkinje cells of the brain.

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

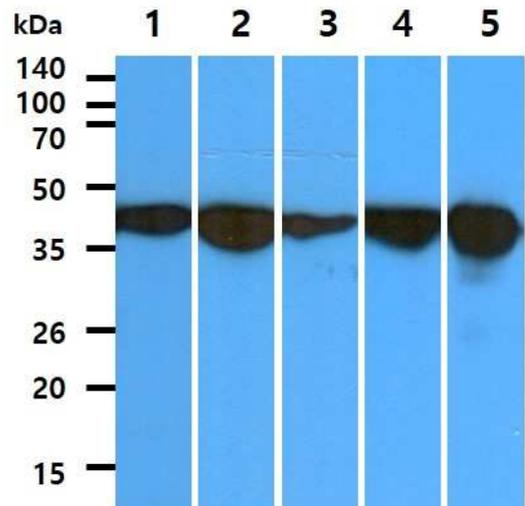
Lane 1. : PC3 cell lysate

Lane 2. : U87MG cell lysate

Lane 3. : WiDr cell lysate

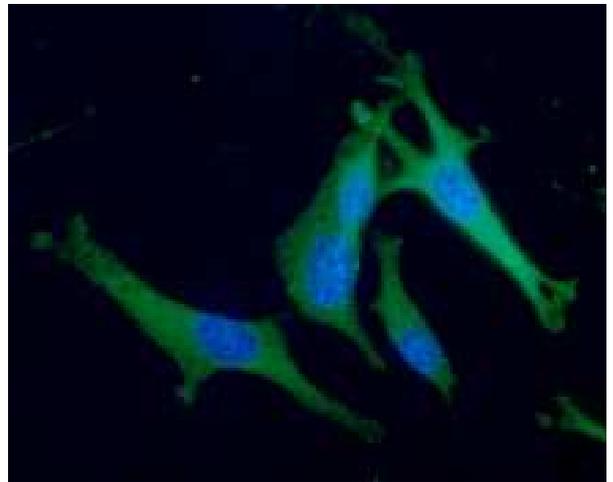
Lane 4. : Jurkat cell lysate

Lane 5. : Mouse brain tissue lysate



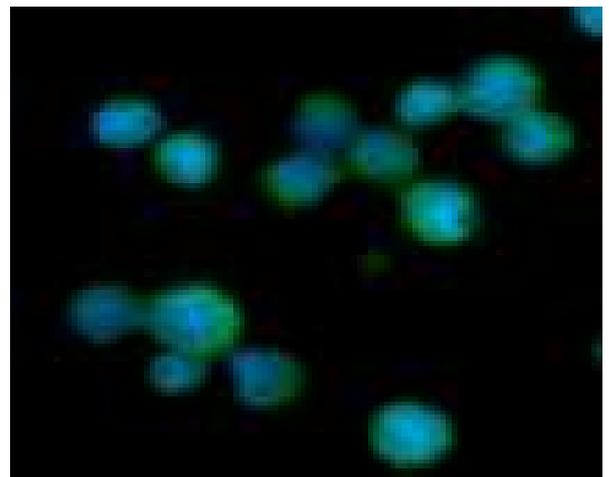
ICC/IF analysis

ICC/IF analysis of ALDOC in U87MG cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ALDOC antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



ICC/IF analysis

ICC/IF analysis of ALDOC in Jurkat cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ALDOC antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



- General references:**
- Wang CF., *et al.* (2007) *Anim Genet.* **38(3)**: 203-210.
 - Arakaki TL., *et al.* (2004) *Protein Sci.* **13(12)**: 3077-3084.

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