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# **Human ALDOC antibody**

Catalog Number: ATGA0397

# **PRODUCT INFORMATION**

# Catalog number

ATGA0397

#### Clone No.

AT2E11

#### **Product type**

Monoclonal Antibody

#### UnitProt No.

P09972

#### **NCBI Accession No.**

NP 005156

#### **Alternative Names**

Aldolase C fructose-bisphosphate., Aldolase C, fructose-bisphosphate., ALDC

# **PRODUCT SPECIFICATION**

# **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

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

## Isotype

IgG1 kappa

# **Purification Note**

By protein-A affinity chromatography

# **Application**

ELISA, WB, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot 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.

#### **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

# **Description**

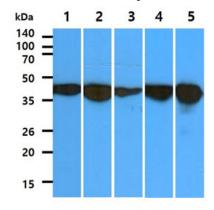
ALDOC, also known as aldolase C, is a member of the class I fructose-biphosphate aldolase family. This protein is a glycolytic enzyme that catalyzes the reversible aldol cleavage of fructose-1, 6-biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate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

#### **General References**

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

# **DATA**

## Western blot analysis (WB)

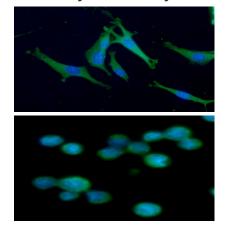


The cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ALDOC antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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

# Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ALDOC in U87MG cells. The cell was stained with ATGA0397 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ICC/IF analysis of ALDOC in Jurkat cells. The cell was stained with ATGA0397 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

