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## **Human GOT2 antibody**

Catalog Number: ATGA0357

## **PRODUCT INFORMATION**

## Catalog number

ATGA0357

#### Clone No.

AT8B11

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P00505

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

NP 002071

#### **Alternative Names**

Aspartate aminotransferase 2 mitochondrial, Aspartate aminotransferase 2, mitochondrial, KAT4, KATIV, mitAAT

### **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 GOT2 (30-430aa) purified from E.coli

#### Isotype

IgG3 kappa

### **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, ICC/IF, FACS

#### Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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#### **Storage**

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**

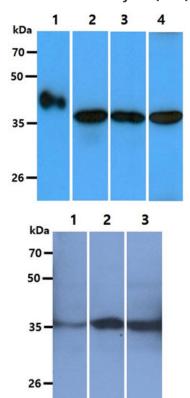
Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and inner-membrane mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. Also, GOT2 is a major participant in the malate-aspartate shuttle, which is a passage from the cytosol to the mitochondria. The two enzymes are homodimeric and show close homology. GOT2 has been seen to have a role in cell proliferation, especially in terms of tumor growth.

## **General References**

Yang H., et al. (2015) The EMBO journal. 34(8): 1110-1125. Guidetti P., et al. (2007) Journal of neurochemistry. 102(1): 103-111.

#### **DATA**

## Western blot analysis (WB)



The recombinant human GOT2 (50ng), cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: GOT2 Recombinant protein

Lane 2.: Ramos cell lysate Lane 3.: 293T cell lysate Lane 4.: Liver tissue lysate

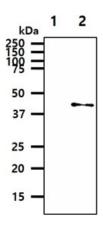
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate Lane 3.: Balb/3T3 cell lysate



## **Human GOT2 antibody**

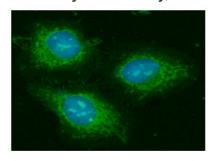
Catalog Number: ATGA0357



The recombinant proteins (20ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

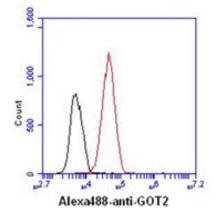
Lane 1.: Recombinant Human GOT1 Lane 2.: Recombinant Human GOT2

## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of GOT2 in HeLa cells. The cell was stained with ATGA0357 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

## Flow cytometry (FACS)



Flow cytometry analysis of GOT2 in HepG2 cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

