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# **Human AST1/GOT1 antibody**

Catalog Number: ATGA0445

### **PRODUCT INFORMATION**

## Catalog number

ATGA0445

#### Clone No.

AT3G11

### **Product type**

Monoclonal Antibody

#### UnitProt No.

P17174

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

NP 002070

#### **Alternative Names**

Glutamic-oxaloacetic transaminase 1, Aspartate aminotransferase 1, Aspartate transaminase 1, AST1, SGOT, AST, cAspAT, Cysteine aminotransferase cytoplasmic, Cysteine transaminase, Cytoplasmic, cCAT, Transaminase A

### **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 GOT1 (1-413aa) purified from E. coli

### Isotype

IgG2a kappa

#### **Purification Note**

By protein-A affinity chromatography

#### **Application**

ELISA, WB, ICC/IF, FACS

#### 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.



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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**

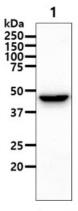
Glutamic-oxaloacetic transaminase (GOT) is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology.

### **General References**

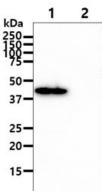
Bousquet-Lemercier B., et al. (1990) Biochemistry 29(22): 5293-9. Totan A., et al. (2006) Clin Chem Lab Med. 44(5): 612-5.

### **DATA**

## Western blot analysis (WB)



The cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1: A427 cell lysate



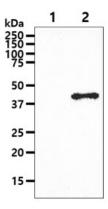
The recombinat proteins (100ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1 : Recombinant human GOT1 Lane 2 : Recombinant human GOT2



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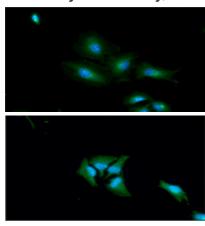


The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1: 293T cell lysate

Lane 2: GOT1 Transfected 293T cell lysate

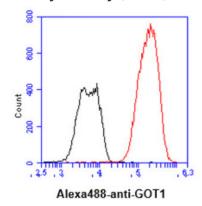
## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of GOT1 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human GOT1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

ICC/IF analysis of GOT1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human GOT1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

### Flow cytometry (FACS)



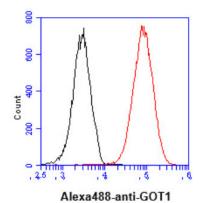
Flow cytometry analysis of GOT1 in Hep3B cell line, staining at 2-5ug for 1x106cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



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Flow cytometry analysis of GOT1 in HeLa cell line, staining at 2-5ug for  $1\times106$ cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

