

# Human GOT2 antibody

Catalog Number: ATGA0357

## PRODUCT INFORMATION

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**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

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**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.

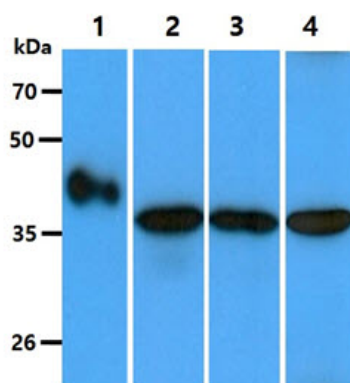
### General References

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)



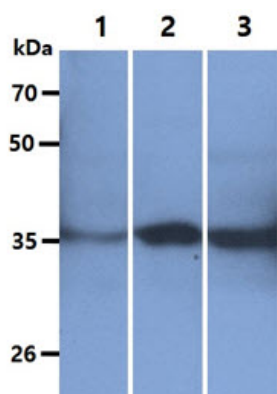
The recombinant human GOT2 (50ng), cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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.

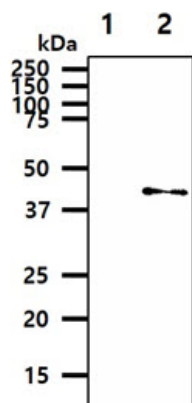
Lane 1.: HeLa cell lysate

Lane 2.: HepG2 cell lysate

Lane 3.: Balb/3T3 cell lysate

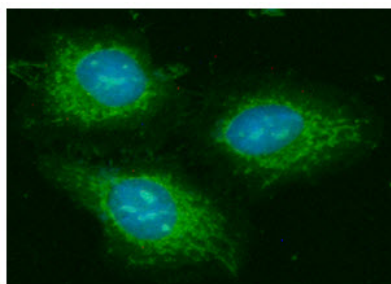
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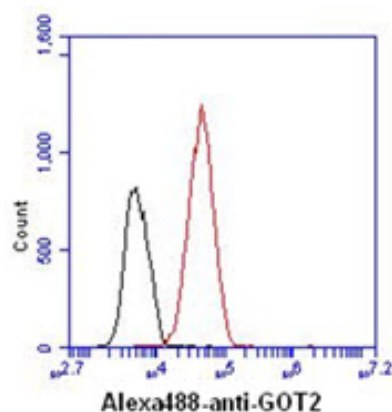
The recombinant proteins (20ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant Human GOT1  
Lane 2.: Recombinant 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  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).