

# Human AGXT antibody

Catalog Number: ATGA0604

## PRODUCT INFORMATION

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**Catalog number**

ATGA0604

**Clone No.**

AT2D10

**Product type**

Monoclonal antibody

**UnitProt No.**

P21549

**NCBI Accession No.**

NP\_000021.1

**Alternative Names**

alanine-glyoxylate aminotransferase, AGXT1, PH1, AGT, SPT, AGT1, L-alanine: glyoxylate aminotransferase 1, serine:pyruvate aminotransferase, Ser-PyrAT, SPAT, TLH6

**Additional Information**

ATGP0166 has been replaced with a catalog number ATGA0604.

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml

**Formulation**

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

**Immunogen**

Recombinant AGXT (330-392aa) purified from E. coli

**Isotype**

IgG2b 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

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reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## 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

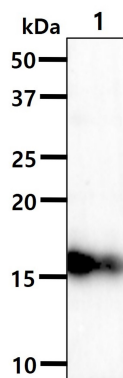
The AGXT gene provides instructions for making a liver enzyme called alanine-glyoxylate aminotransferase. Inside liver cells, this enzyme is found in peroxisomes, structures that contain many different enzymes used to produce energy and the basic materials important for cellular activities. AGXT converts a compound called glyoxylate to glycine, an amino acid that is a building block for making enzymes and other proteins.

### General References

- Donini S, et al., (2009) *Biochem J* 422(2):265-272.
- Grujic D, et al., (2009) *Am J Nephrol* 29(2):86-93.
- Williams EL, et al., (2009) *Hum Mutat* 30(6):910-917.

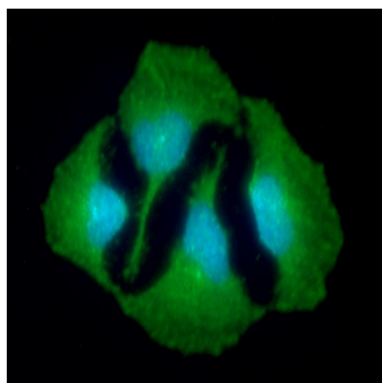
## DATA

### Western blot analysis (WB)



The recombinant protein (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AGXT 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 AGXT protein

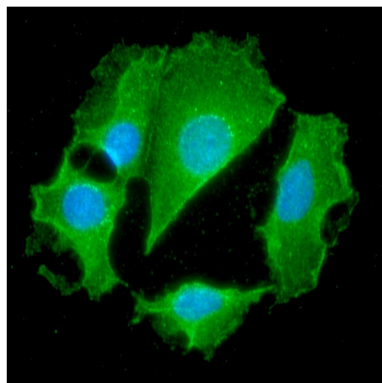
### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of AGXT in HeLa cells. The cell was stained with ATGA0604 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

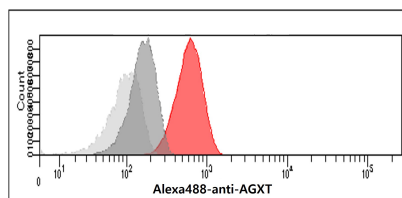
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ICC/IF analysis of AGXT in Hep3B cells. The cell was stained with ATGA0604 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

### Flow cytometry (FACS)



Flow cytometry analysis of AGXT in HeLa cells. The cell was stained with ATGA0604 at 2-5ug for  $1 \times 10^6$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).