

Human AGXT antibody

Catalog Number: ATGA0166

PRODUCT INFORMATION

Catalog number

ATGA0166

Clone No.

AT2T4

Product type

Monoclonal Antibody

UnitProt No.

P21549

NCBI Accession No.

NP_000021

Alternative Names

Serpin B5, Protease inhibitor 5, SERPINB5, alanine-glyoxylate aminotransferase, AGXT1, PH1, AGT, SPT, AGT1, oxalosis I, primary hyperoxaluria type 1, L-alanine: glyoxylate aminotransferase 1, serine:pyruvate aminotransferase, glycolicaciduria

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

Isotype

IgG2b kappa

Purification Note

By protein-G 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

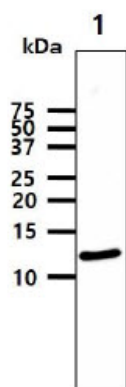
The AGXT gene provides instructions for making a liver enzyme called alanine-glyoxylate aminotransferase. Inside liver cells, this enzyme is found in peroxisomes, structures that contain many different enzymes used to produce energy and the basic materials important for cellular activities. AGXT converts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

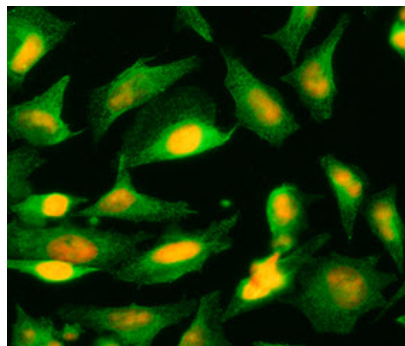
DATA

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

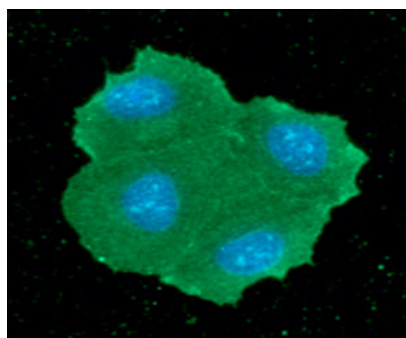
Immunocytochemistry/Immunofluorescence (ICC/IF)



Immunofluorescence of human HeLa cells stained with PI (Red) and monoclonal anti-AGXT antibody (1:500) with Alexa 488 (Green).

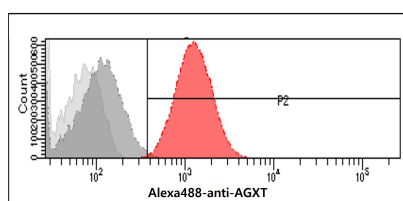
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ICC/IF analysis of AGXT in Hep3B cells. The cell was stained with ATGA0166 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of AGXT in HeLa cells. The cell was stained with ATGA0166 at 2-5ug for 1×10^6 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).