NKMAXBio We support you, we believe in your research

Human AGXT antibody

Catalog Number: ATGA0580

PRODUCT INFORMATION

Catalog number
ATGA0580

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

Additional Information
This product was produced from tissue culture supe

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-A affinity chromatography

Application
ELISA,WB,ICC/IF,FACS

Human AGXT antibody

Catalog Number: ATGA0580

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.

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 toproduce energy and the basic materials important for cellular activities. AGXT converts a compound calledglyoxylate to glycine, an amino acid that is a building block for making enzymes and other proteins.

General References

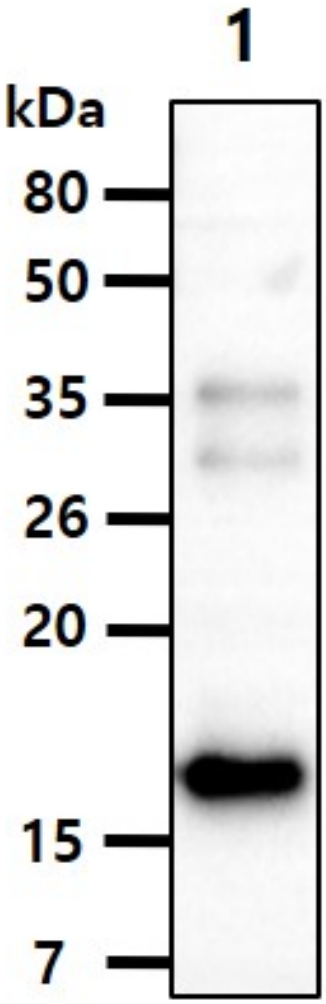
Donini S, et al., (2009) Biochem J 422(2):265-272.
Grujic D, et al., (2009) Am J Nephrol 29(2):86-93.
Williams EL, et al., (2009) Hum Mutat 30(6):910-917.

DATA

Western blot analysis (WB)

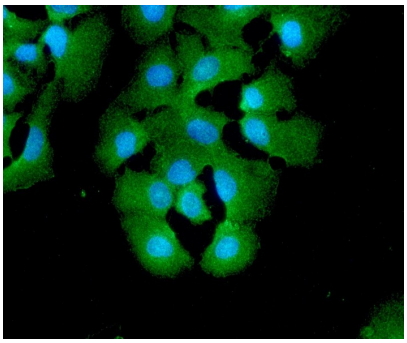
Human AGXT antibody

Catalog Number: ATGA0580



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)

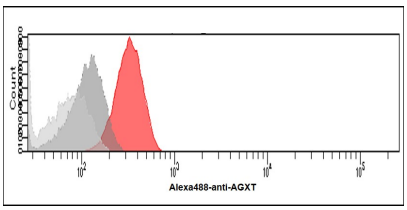


ICC/IF analysis of AGXT in Hep3B cells. The cell was stained with ATGA0580 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

Human AGXT antibody

Catalog Number: ATGA0580



Flow cytometry analysis of AGXT in HeLa cells. The cell was stained with ATGA0580 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mousemonoclonal 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).