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Human OAT antibody

Catalog Number: ATGA0563

PRODUCT INFORMATION

Catalog number
ATGA0563

Clone No.
AT23A2

Product type
Monoclonal antibody

UnitProt No.
P04181

NCBI Accession No.
NP_000265

Alternative Names
ornithine aminotransferase precursor, DKFZp781A11155, HOGA, OATASE, ornithine aminotransferase precursor EC 2.6.1.13, ornithine aminotransferase (gyrate atrophy), ornithine aminotransferase precursor, Ornithine aminotransferase, mitochondrial precursor, Ornithine oxo-acid aminotransferase, Ornithine--oxo-acid aminotransferase

Additional Information
This product was produced from tissue culture supernatant.

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 OAT (33-439aa) purified from E.coli

Isotype
IgG1 kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

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Usage

The antibody has been tested by ELISA, Western blot and ICC/IF 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

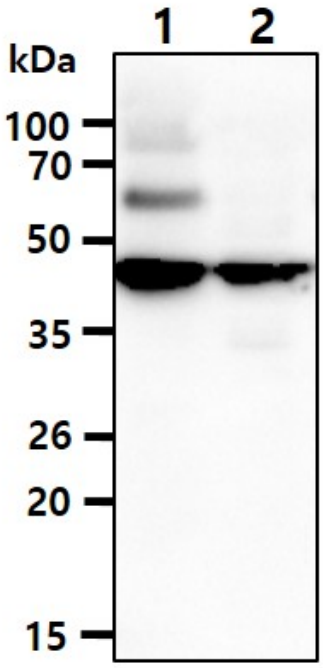
OAT is a 49-kDa nucleus-encoded protein imported into mitochondria to give the mature 48-kDa OAT polypeptide. It has been described in humans, animals, insects, plants and microorganisms. Especially OAT have sex-differential expression in the mouse kidney. OAT plays crucial physiological roles in amino acid metabolism. OAT shows a large structural and mechanistic similarity to other enzymes from the subgroup III of aminotransferases, which transfer an amino group from a carbon atom that does not carry a carboxyl function. OAT is essential for nitrogen recycling from arginine but not for the stress-induced proline accumulation.

General References

Stranska J, et al. (2008) Plant Signal Behav, 3(11):929-35.
Canas RA, et al. (2008) Plant Physiol, 148(1):77-88.
Levillain O, et al. (2007) Am J Physiol Renal Physiol, 292(3):F1016-27.

DATA

Western blot analysis (WB)



The lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human OAT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Mouse liver tissue lysate
Lane 2.: 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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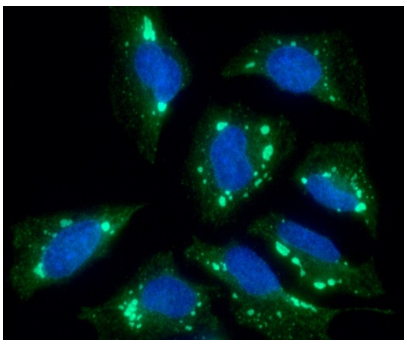

ICC/IF analysis of OAT in HeLa cells. The cell was stained with ATGA0563 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).