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Human OAT antibody

Catalog Number: ATGA0176

PRODUCT INFORMATION

Catalog number

ATGA0176

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

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-G affinity chromatography

Application

ELISA, WB, ICC/IF

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.



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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

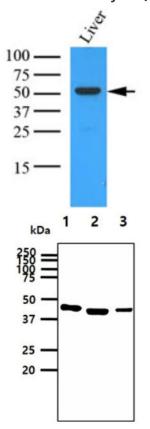
OAT is a 49-kDa nucleus-encoded protein imported into mitochondria to give the mature 48-kDa OAT polypeptide. It has been described in humans, animals, insects, plants and microorganisms. Especially OAT have sex-differential expression in the mouse kidney. OAT plays crucial physiological roles in amino 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)



Tissue lysate of mouse liver (35ug) was resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human OAT (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

The recombinant protein (20ng) and lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with antihuman OAT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: OAT recombinant protein

Lane 2.: 293T cell lysate

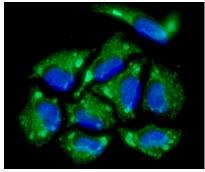
Lane 3.: Mouse brain tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

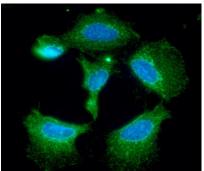


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ICC/IF analysis of OAT in HeLa cells. The cell was stained with ATGA0176 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of OAT in Hep3B cells. The cell was stained with ATGA0176 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

