

Human MAT2A antibody

Catalog Number: ATGA0138

PRODUCT INFORMATION

Catalog number

ATGA0138

Clone No.

AT3A2

Product type

Monoclonal Antibody

UnitProt No.

P31153

NCBI Accession No.

NP_005902

Alternative Names

Methionine adenosyltransferase II alpha, MATA2, MATII, SAMS2, Methionine adenosyltransferase II alpha, MAT2A, Methionine adenosyltransferase II, alpha AdoMet synthetase, AdoMet synthetase 2, AMS 2, MAT II, MATA 2, Methionine adenosyltransferase, Methionine adenosyltransferase 2, SAMS 2, Methionine adenosyltransferase II, S adenosylmethionine synthetase gamma form, S adenosylmethionine synthetase isoform type 2, S-adenosylmethionine synthetase isoform type 2

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 MAT2A (1-395aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, IHC

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and IHC analysis to assure specificity and reactivity.

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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

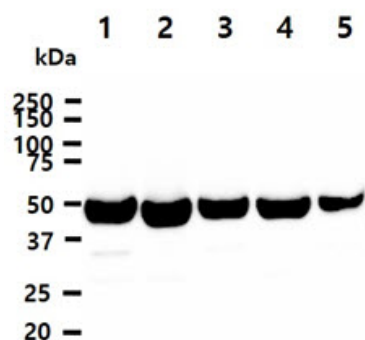
Methionine adenosyltransferase II (MAT II) is a key enzyme in cellular metabolism and catalyzes the formation of S-adenosylmethionine (SAME) from L-methionine and ATP. MAT2A is expressed in extrahepatic tissues. In liver, MAT2A expression associates with growth, dedifferentiation, and cancer.

General References

Ramani K, et al., (2008) Hepatology 47(2):521-531.
Chen H, et al., (2007) Gastroenterology 133(1):207-218.

DATA

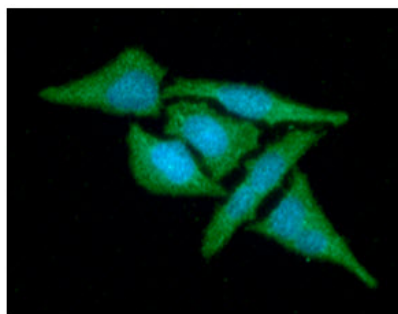
Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MAT2A antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate
Lane 2.: Ramos cell lysate
Lane 3.: 293T cell lysate
Lane 4.: Jurkat cell lysate
Lane 5.: NIH-3T3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

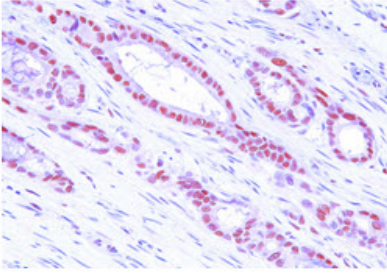


ICC/IF analysis of MAT2A in HeLa cells. The cell was stained with ATGA0138 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Immunohistochemistry (IHC)

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Human colon cancer tissue

Paraffin embedded sections of human colon cancer tissue were incubated with anti-human MAT2A (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)