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Human ASS1 antibody

Catalog Number: ATGA0416

PRODUCT INFORMATION

Catalog number

ATGA0416

Clone No.

AT1G11

Product type

Monoclonal Antibody

UnitProt No.

P00966

NCBI Accession No.

NP 000041

Alternative Names

Argininosuccinate synthase, ASS, CTLN1, Argininosuccinate synthase

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 ASS1 (1-412aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

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

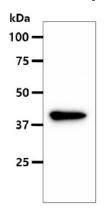
ASS1 (argininosuccinate synthase or citrulline-aspartate ligase) belongs to the argininosuccinate synthase family. ASS1 is a urea cycle enzyme that is essential in the conversion of nitrogen from ammonia and aspartate to urea. A deficiency of ASS1 causes citrullinemia (CTLN1), an autosomal recessive disease which is characterized by severe vomiting spells and mental retardation. Cells deficient in ASS1 must absorb the arginine they need for growth from circulating blood.

General References

Chalikiopoulou C., et al. (2016) Pharmacogenomics. (4): 393-403. Rabinovich S., et al. (2015) Nature. 527(7578): 379-83. Walts AE., et al. (2015) J Cancer Res Clin Oncol. 141(8): 1363-9.

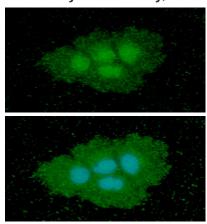
DATA

Western blot analysis (WB)



The MCF-7 cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ASS1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ASS1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ASS1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

