

Human Adenylosuccinate Lyase/ADSL antibody

Catalog Number: ATGA0400

PRODUCT INFORMATION

Catalog number

ATGA0400

Clone No.

AT16C10

Product type

Monoclonal Antibody

UnitProt No.

P30566

NCBI Accession No.

NP_000017

Alternative Names

Adenylosuccinate lyase, AMPS, ASASE, ASL

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 ADSL(1-484aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

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.

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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

Adenylosuccinate lyase, also known as ADSL, is an enzyme that converts adenylosuccinate to AMP and fumarate as part of the purine nucleotide cycle. Defects in ADSL are the cause of adenylosuccinase deficiency (ADSL deficiency). ADSL deficiency is an autosomal recessive disorder characterized by the accumulation in the body fluids of succinylaminoimidazole-carboxamide riboside (SAICA-riboside) and succinyladenosine (S-Ado).

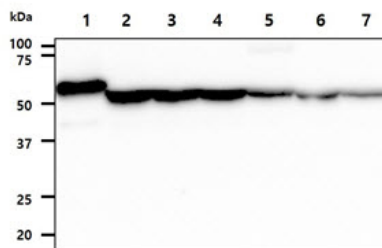
General References

Marie S., et al. (2002) Am J Hum Genet. 71: 14-21.

Kmoch S., et al. (2000) Hum Mal Genet. 9: 1501-1513.

DATA

Western blot analysis (WB)



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

Lane 1. : Recombinant Protein

Lane 2. : HeLa cell lysate

Lane 3. : 293T cell lysate

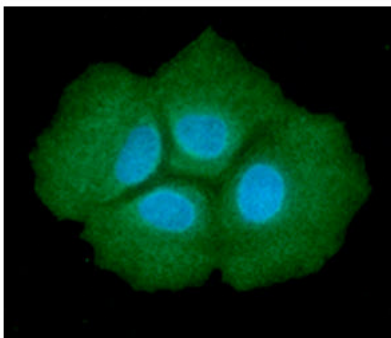
Lane 4. : Jurkat cell lysate

Lane 5. : HepG2 cell lysate

Lane 6. : A549 cell lysate

Lane 7. : MCF7 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

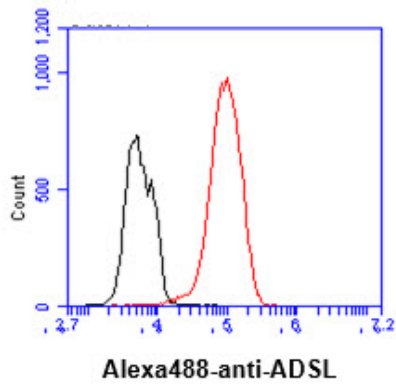


ICC/IF analysis of ADSL in Hep3B cells. The cell was stained with ATGA0400 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of ADSL in Hep3B cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).