NKMAXBio we support you, we believe in your research 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

lgG1 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.



#### 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

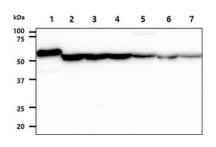
Adenylosuccinate lyase, also known as ADSL, is an enzyme that converts adenylosuccinate to AMP and fumarate as part of the purine nucleotide cycle. Defects in ADSL are the cause of adenylosuccinase deficiency (ADSL deficiency). ADSL deficiency is an autosomal recessive disorder characterized by the accumulation 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.

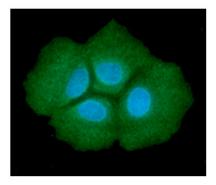
### DATA

### 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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Alexa488-anti-ADSL

Flow cytometry analysis of ADSL in Hep3B cell line, staining at 2-5ug for 1x10<sup>6</sup>cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

