

## Monoclonal anti-human ADSL antibody (clone AT16C10)

Mouse IgG<sub>1</sub>, κ

Cat. No. IBATGA0400

**Immunogen:** Recombinant human ADSL(1-484aa) purified from *E. coli*

**NCBI Accession No.:** NP\_000017

**Isotype:** Mouse IgG<sub>1</sub> heavy chain and κ light chain

**Clone:** Anti-human ADSL mAb, clone AT16C10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ADSL protein.

**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).

**Concentration:** 1mg/ml

**Form:** Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

**Storage:** Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

**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.

**Application:** ELISA, WB, Flow cytometry, ICC/IF

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax.: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)

# Product information

## Western blot analysis

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

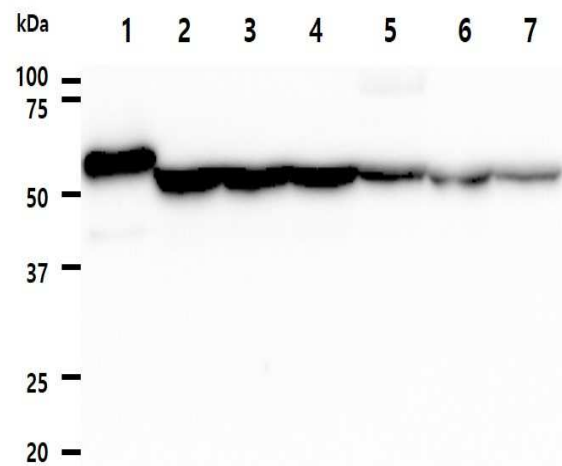
Lane 3. : 293T cell lysate

Lane 4. : Jurkat cell lysate

Lane 5. : HepG2 cell lysate

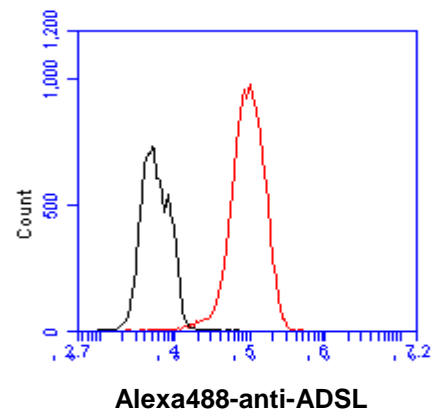
Lane 6. : A549 cell lysate

Lane 7. : MCF7 cell lysate



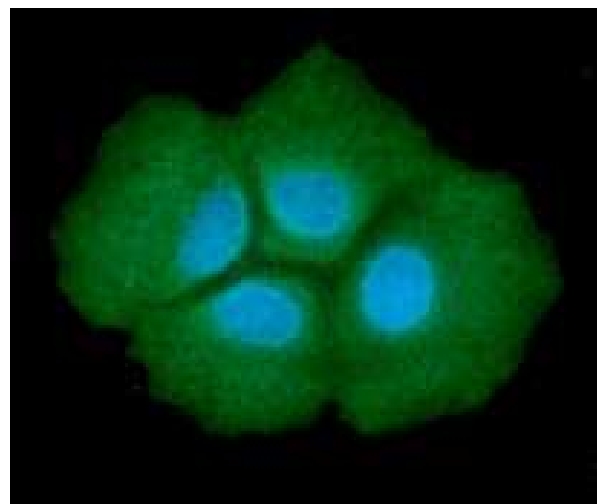
## Flow cytometry

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



## ICC/IF analysis

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



**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**