Data Sheet (Cat.No.TMAY-01825)

TargetMol

Anti-Adenylosuccinate Lyase Antibody (8T693)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8T693
Purification:	Protein A

Applications

Verified Activity:	Immunofluorescence staining of His-ADSL in HeLa cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with mouse anti-Human His-ADSL monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.
Application:	ICC/IF
Recommended	ICC-IF: 1:20-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human Adenylosuccinate Lyase Protein (TMPY-02552)
Antigen Species:	Human
Synonyms:	AMPS;ASASE;adenylosuccinate lyase;ASL

Research Background

Adenylosuccinate lyase, also known as adenylosuccinase, ADSL or ASL, is an enzyme implicated in the reaction of adenylosuccinat converting to AMP and fumarate as part of the purine nucleotide cycle. The two substates of adenylosuccinate lyase (ADSL) are dephosphorylated derivatives of SAICA ribotide (SAICAR) and adenylosuccinate (S-AMP), which catalyzes an important reaction in the de novo pathway of purine biosynthesis. ADSL catalyzes two distinct reactions in the synthesis of purine nucleotides, both of which involve the _-elimination of fumarate to produce either aminoimidazole carboxamide ribotide from SAICAR or AMP from S-AMP. The Adenylosuccinate lyase deficiency is a rare autosomal recessive metabolic disorder characterized by the present of SAICA riboside and succinyladenosine (S-Ado). ADSL defect in different patients is often caused by different mutations to the enzyme.

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