Product Name: **KD-Validated Adenylosuccinate Lyase Mouse Monoclonal Antibody**
Catalog #: **KVAb01711**
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,500-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 54.9kDa

Antigen Information

Gene Name	ADSL
Alternative Names	ADSL; Adenylosuccinate Lyase; Adenylosuccinase; EC 4.3.2.2; AMPS; ASL; EC 4.3.2; ASASE; ASase
Gene ID	158.0
SwissProt ID	P30566
Immunogen	Recombinant protein of human ADSL

Background

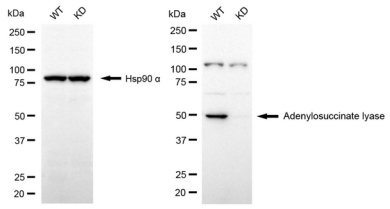
The protein encoded by this gene belongs to the lyase 1 family. It is an essential enzyme involved in purine metabolism, and catalyzes two non-sequential reactions in the de novo purine biosynthetic pathway: the conversion of succinylaminoimidazole carboxamide ribotide (SAICAR) to aminoimidazole carboxamide ribotide (AICAR) and the conversion of adenylosuccinate (S-

AMP) to adenosine monophosphate (AMP). Mutations in this gene are associated with adenylosuccinase deficiency (ADSLD), a disorder marked with psychomotor retardation, epilepsy or autistic features. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2015]

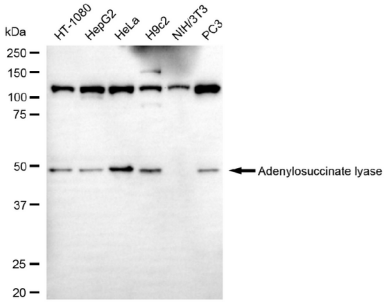
Research Area

Signal Transduction,Metabolism

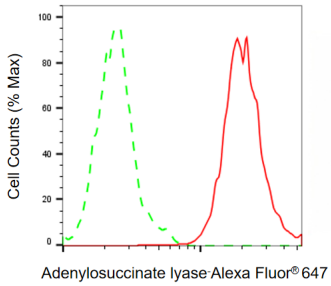
Image Data



Western blotting analysis using adenylosuccinate lyase antibody (KVAb01711). Adenylosuccinate lyase expression in wild type (WT) and adenylosuccinate lyase (ADSL) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with adenylosuccinate lyase antibody (KVAb01711, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using adenylosuccinate lyase antibody (KVAb01711). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with adenylosuccinate lyase antibody (KVAb01711, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Flow cytometric analysis of Adenylosuccinate lyase expression in HeLa cells using Adenylosuccinate lyase antibody (KVAb01711, 1:2,000). Green, isotype control; red, Adenylosuccinate lyase.