
Product Name: KD-Validated Argininosuccinate Lyase Mouse Monoclonal Antibody
Catalog #: KVA00650

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 51.7kDa

Antigen Information

Gene Name	ASL
Alternative Names	ASL; Argininosuccinate Lyase; ASAL; Argininosuccinase; EC 4.3.2.1; Argininosuccinase
Gene ID	435.0
SwissProt ID	P04424
Immunogen	Recombinant protein of human ASL

Background

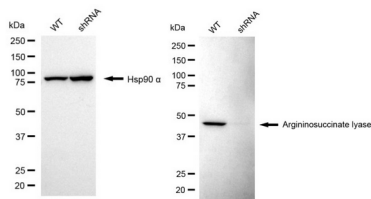
This gene encodes a member of the lyase 1 family. The encoded protein forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate, an essential step in the liver in detoxifying ammonia via the urea cycle. Mutations in this gene result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency. A nontranscribed pseudogene is also located on the long arm of

chromosome 22. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

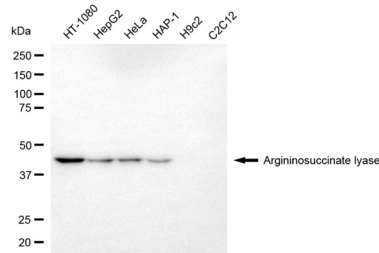
Research Area

Signal Transduction, Metabolism

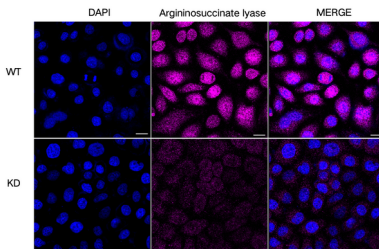
Image Data



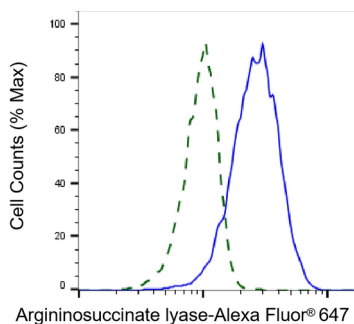
Western blotting analysis using argininosuccinate lyase antibody (KVA00650). Argininosuccinate lyase expression in wild type (WT) and argininosuccinate lyase (ASL) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with argininosuccinate lyase antibody (KVA00650, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using argininosuccinate lyase antibody (KVA00650). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with argininosuccinate lyase antibody (KVA00650, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Argininosuccinate lyase antibody (KVA00650, 1:1,000), Top panel: wild-type (WT); Bottom panel: Argininosuccinate lyase shRNA knockdown (KD). Nuclei were stained blue with DAPI; Argininosuccinate lyase was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Validation of Argininosuccinate lyase knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Argininosuccinate lyase antibody (KVA00650, 1:2,000) and analyzed using BD flow cytometer.

