

Product Name: KD-Validated ASS1 Mouse Monoclonal Antibody**Catalog #: KVA00277**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
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 1:500-1:2,500; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 46.5kDa

Antigen Information

Gene Name	ASS1 ASS1; Argininosuccinate Synthase 1; CTLN1; ASS; Argininosuccinate Synthase; EC 6.3.4.5;
Alternative Names	Epididymis Secretory Sperm Binding Protein; Argininosuccinate Synthetase 1; Argininosuccinate Synthetase; Citrulline--Aspartate Ligase; Citrulline-Aspartate Ligase
Gene ID	445.0
SwissProt ID	P00966
Immunogen	A synthesized peptide derived from human ASS1

Background

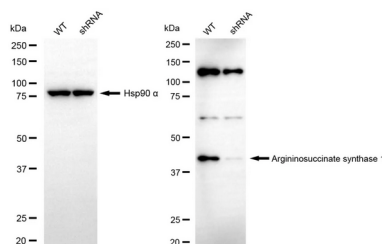
The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on

chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of this gene cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2012]

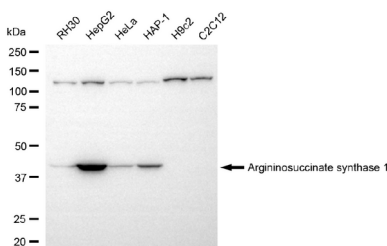
Research Area

Signal Transduction, Metabolism

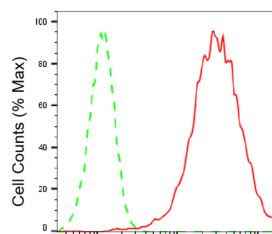
Image Data



Western blotting analysis using argininosuccinate synthase 1 antibody (KVA00277). Argininosuccinate synthase 1 expression in wild-type (WT) and argininosuccinate synthase 1 (ASS1) 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 synthase 1 antibody (KVA00277, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using argininosuccinate synthase 1 antibody (KVA00277). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with argininosuccinate synthase 1 antibody (KVA00277, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Flow cytometric analysis of Argininosuccinate synthase 1 expression in HepG2 cells using Argininosuccinate synthase 1 antibody (KVA00277, 1:2,000). Green, isotype control; red, Argininosuccinate synthase 1.