

Product Name: KD-Validated ACSS2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00215**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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: 78.6kDa

Antigen Information

Gene Name	ACSS2
Alternative Names	ACSS2; Acyl-CoA Synthetase Short Chain Family Member 2; ACS; DJ1161H23.1; ACAS2; ACSA; Acetyl-Coenzyme A Synthetase 2 (ADP Forming); Acetyl-Coenzyme A Synthetase, Cytoplasmic; Acetyl-CoA Synthetase 1; Acyl-Activating Enzyme; Propionate--CoA Ligase; EC 6.2.1.1; AceCS1; AceCS; ACECS; Acyl-CoA Synthetase Short-Chain Family Member 2; Cytoplasmic Acetyl-Coenzyme A Synthetase; Acetyl-CoA Synthetase; Acetate--CoA Ligase; Acetate Thiokinase; Acetate-CoA Ligase; EC 6.2.1.17; EC 6.2.1
Gene ID	55902.0
SwissProt ID	Q9NR19
Immunogen	A synthesized peptide derived from human ACSS2

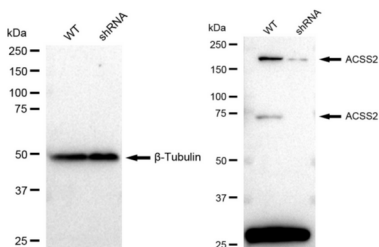
Background

This gene encodes a cytosolic enzyme that catalyzes the activation of acetate for use in lipid synthesis and energy generation. The protein acts as a monomer and produces acetyl-CoA from acetate in a reaction that requires ATP. Expression of this gene is regulated by sterol regulatory element-binding proteins, transcription factors that activate genes required for the synthesis of cholesterol and unsaturated fatty acids. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2009]

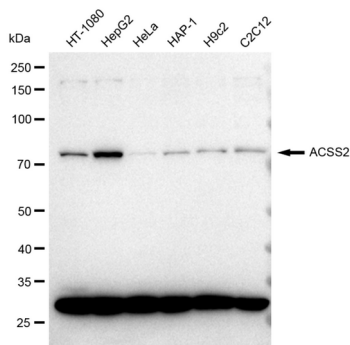
Research Area

Signal Transduction, Metabolism, Metabolism

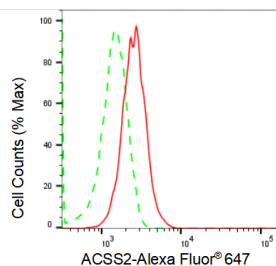
Image Data



Western blotting analysis using ACSS2 antibody (KVA00215). ACSS2 expression in wild type (WT) and ACSS2 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with ACSS2 antibody (KVA00215, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ACSS2 antibody (KVA00215). Total cell lysates (45 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ACSS2 antibody (KVA00215, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. ACSS2, acyl-CoA synthetase short chain family member 2.



Flow cytometric analysis of ACSS2 expression in HepG2 cells using ACSS2 antibody (KVA00215, 1:2,000). Green, isotype control; red, ACSS2.