Product datasheet

Anti-Acetyl CoA synthetase/ACSS2 Antibody

Catalog Number: ***A02809-1***

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Acetyl CoA synthetase/ACSS2 Antibody
Gene Name	ACSS2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human ACSS2 recombinant protein (Position: E201-A651).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	79 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Acyl-coenzyme A synthetase short-chain family member 2 is an enzyme that in humans is encoded by the ACSS2 gene. 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.

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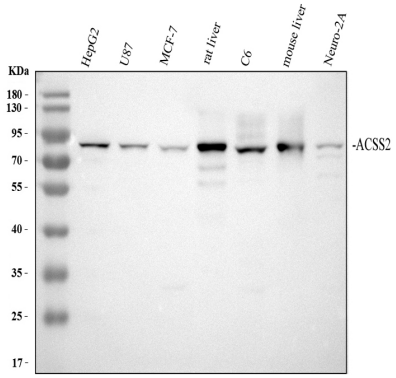
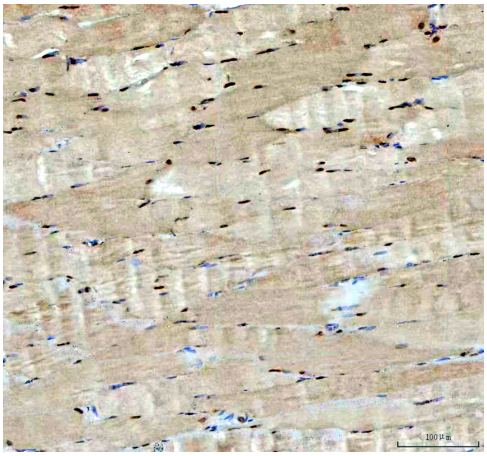
Selected Validation Data



Western blot analysis of Acetyl CoA synthetase/ACSS2 using anti-Acetyl CoA synthetase/ACSS2 antibody (A02809-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human U87 whole cell lysates,
Lane 3: human MCF-7 whole cell lysates,
Lane 4: rat liver tissue lysates,
Lane 5: rat C6 whole cell lysates,
Lane 6: mouse liver tissue lysates,
Lane 7: mouse Neuro-2a whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Acetyl CoA synthetase/ACSS2 antigA03957-Aen affinity purified polyclonal antibody (A02809-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Acetyl CoA synthetase/ACSS2 at approximately 79 kDa. The expected band size for Acetyl CoA synthetase/ACSS2 is at 79 kDa.



IHC analysis of Acetyl CoA synthetase/ACSS2 using anti-Acetyl CoA synthetase/ACSS2 antibody (A02809-1).
Acetyl CoA synthetase/ACSS2 was detected in a paraffin-embedded section of human skeletal muscle tissue. The tissue section was incubated with rabbit anti-Acetyl CoA synthetase/ACSS2 Antibody (A02809-1) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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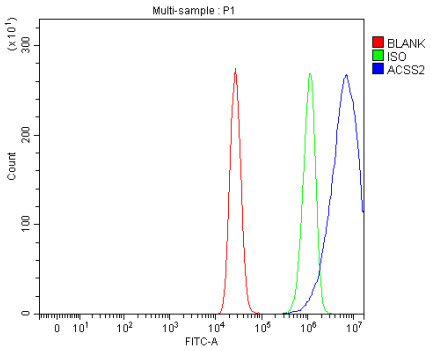

Flow Cytometry analysis of MCF-7 cells using anti-Acetyl CoA synthetase/ACSS2 antibody (A02809-1).
Overlay histogram showing MCF-7 cells stained with A02809-1 (Blue line). To facilitate intrMyelin basic protein/MBPllular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Acetyl CoA synthetase/ACSS2 Antibody (A02809-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.