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ACSS1 Polyclonal Antibody

Catalog # AP68276

Product Information

Application	WB, IHC-P
Primary Accession	Q9NUB1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74857

Additional Information

Gene ID	84532
Other Names	ACSS1; ACAS2L; KIAA1846; Acetyl-coenzyme A synthetase 2-like; mitochondrial; Acetate--CoA ligase 2; Acetyl-CoA synthetase 2; AceCS2; Acyl-CoA synthetase short-chain family member 1
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

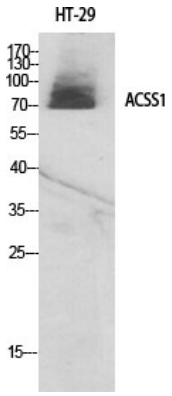
Name	ACSS1
Synonyms	ACAS2L, KIAA1846
Function	Catalyzes the synthesis of acetyl-CoA from short-chain fatty acids (PubMed:16788062). Acetate is the preferred substrate (PubMed:16788062). Can also utilize propionate with a much lower affinity (By similarity). Provides acetyl-CoA that is utilized mainly for oxidation under ketogenic conditions (By similarity). Involved in thermogenesis under ketogenic conditions, using acetate as a vital fuel when carbohydrate availability is insufficient (By similarity).
Cellular Location	Mitochondrion matrix

Background

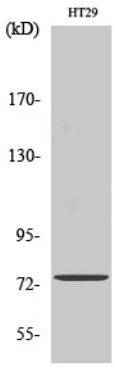
Important for maintaining normal body temperature during fasting and for energy homeostasis. Essential

for energy expenditure under ketogenic conditions (By similarity). Converts acetate to acetyl-CoA so that it can be used for oxidation through the tricarboxylic cycle to produce ATP and CO(2).

Images



Western Blot analysis of various cells using ACSS1 Polyclonal Antibody



Western Blot analysis of HT29 cells using ACSS1 Polyclonal Antibody