

ACSS1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP53283

Product Information

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

Additional Information

Gene ID	84532
Other Names	Acetyl-coenzyme A synthetase 2-like, mitochondrial, 6.2.1.1, Acetate--CoA ligase 2, Acetyl-CoA synthetase 2, AceCS2, Acyl-CoA synthetase short-chain family member 1, ACSS1, ACAS2L, KIAA1846
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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 CO₂.

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).

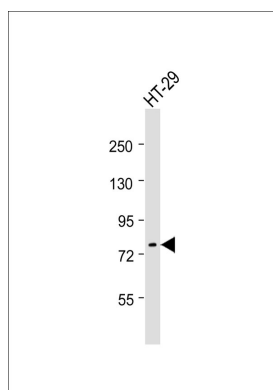
Deloukas P.,et al.Nature 414:865-871(2001).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Nagase T.,et al.DNA Res. 8:85-95(2001).

Nakajima D.,et al.DNA Res. 9:99-106(2002).

Images



Anti-ACSS1 Antibody at 1:1000 dilution + HT-29 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 75 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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