10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ACSS1 Antibody

Catalog # AP53283

Product Information

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

Additional Information

Gene ID	84532
Other Names	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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ACSS1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

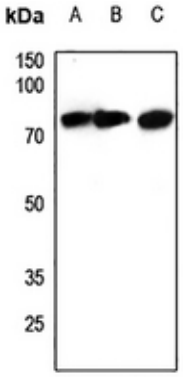
Protein Information

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

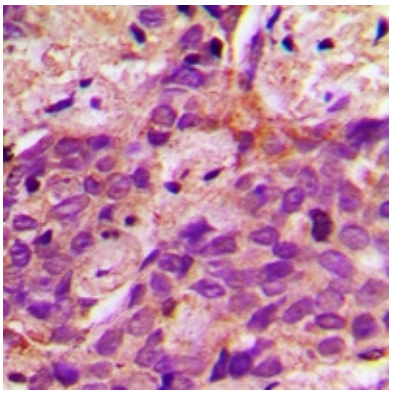
References

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



Western blot analysis of ACSS1 expression in H446 (A), mouse testis (B), mouse kidney (C) whole cell lysates. (Predicted band size: 74 kD; Observed band size: 75 kD)



Immunohistochemical analysis of ACSS1 staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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