

## Product datasheet for **TA503609AM**

### Acetyl CoA synthetase (ACSS2) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3H4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3H4
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ACSS2(NP_061147) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	78.4 kDa
Gene Name:	acyl-CoA synthetase short chain family member 2
Database Link:	<a href="#">NP_061147</a> <a href="#">Entrez Gene 60525 Mouse</a> <a href="#">Entrez Gene 311569 Rat</a> <a href="#">Entrez Gene 55902 Human</a> <a href="#">Q9NR19</a>



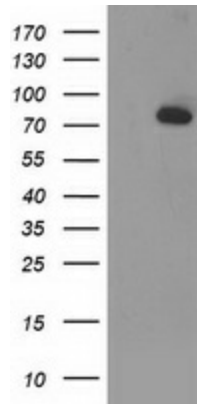
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**Background:** This gene encodes a cytosolic enzyme that catalyzes the activation of acetate for use in lipid synthesis and energy generation. The protein acts as a monomer and produces acetyl-CoA from acetate in a reaction that requires ATP. Expression 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]

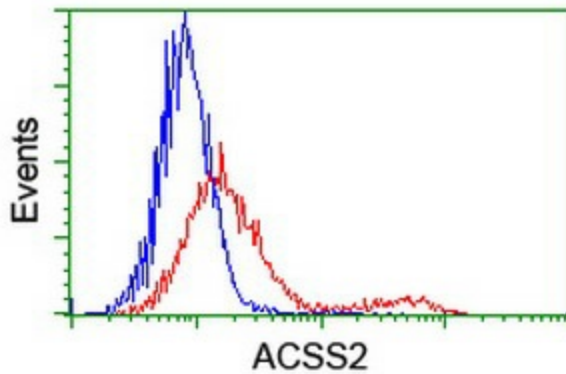
**Synonyms:** ACAS2; ACECS; ACS; ACSA; dj1161H23.1

**Protein Pathways:** Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

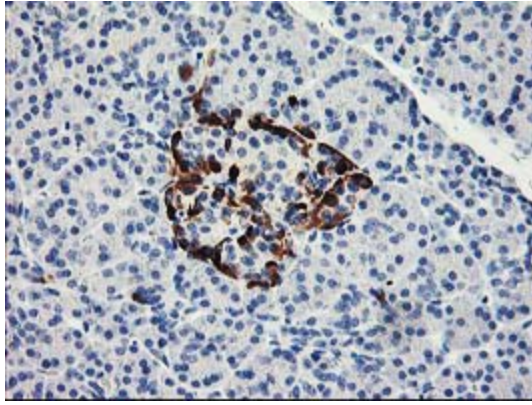
**Product images:**



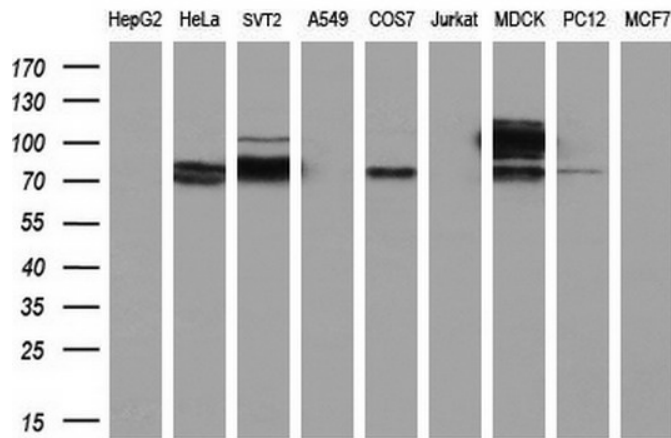
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ACSS2 (Cat# [RC204260], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACSS2(Cat# [TA503609]). Positive lysates [LY412981] (100ug) and [LC412981] (20ug) can be purchased separately from OriGene.



HEK293T cells transfected with either [RC204260] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ACSS2 antibody ([TA503609]), and then analyzed by flow cytometry.



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-ACSS2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503609])



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ACSS2 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).