

Product datasheet for **TA397456S**

Acetyl CoA synthetase (ACSS2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	WB: 1.0 ug/ml ELISA: 1:10,000 - 1:50,000
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	ACSS2 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with synthetic peptide near the N-terminus of human ACSS2.
Specificity:	This affinity purified antibody is directed against human ACSS2 protein. Anti-ACSS2 Antibody to was affinity purified from monospecific antiserum by immunoaffinity chromatography. Blast analysis of the sequence of the immunogen shows 100% identity with human and 80% identity to mouse.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.06 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	acyl-CoA synthetase short-chain family member 2
Database Link:	Entrez Gene 55902 Human Q9NR19



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Background:

This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI). ACSS2 (Acyl-CoA synthetase short-chain family member 2) is a protein coding gene encoding a cytosolic enzyme that catalyzes the activation of acetate for use in lipid synthesis and energy generation. This 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. This protein is upregulated in many cancers and is important for pro-survival under hypoxic conditions. ACSS2 may be associated with disorders such as Cystoisosporiasis. Anti-ACSS2 Antibody is useful for researchers interested in parasites, intestines, Glucose Energy Metabolism, and AKT research.

Synonyms:

rabbit anti-ACSS2 antibody, ACSS-2, ACSS 2, Acetyl-coenzyme A synthetase (cytoplasmic), Acetate-CoA ligase, Acetyl-CoA synthetase, ACS, AceCS, Acyl-CoA synthetase short-chain family member 2, Acyl-activating enzyme, ACAS2

Note:

Anti-ACSS2 Antibody has been tested in Western Blot and ELISA. Expect a band at approximately 76 kDa in western blot using appropriate lysates. Positive control whole cell lysates used Hep-G2 at 1µg/mL for WB. Although not tested, this antibody is likely functional in immunohistochemistry, immunofluorescence, and immunoprecipitation.