

Datasheet for 600-401-GW7S**ACSS2 Antibody****Overview**

Description:	Anti-ACSS2 (RABBIT) Antibody - 600-401-GW7S
Item No.:	600-401-GW7S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ACSS2
Reactivity:	Human

Immunogen Type:	Conjugated Peptide
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.
Purity/Specificity:	This affinity purified antibody is directed against human ACSS2 protein. Anti-ACSS2 Antibody 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.
Relevant Links:	• GeneID - 55902 • NCBI - NP_001070020.2 • UniProtKB - Q9NR19

Application Details

Tested Applications:	ELISA, WB
Application 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
WB:	1.0 µg/ml

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.06 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

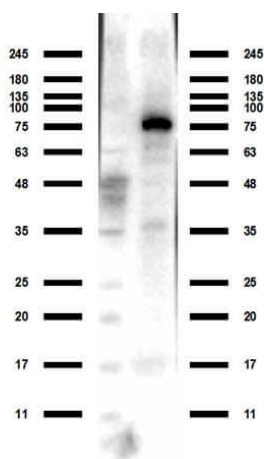
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: 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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-ACSS2 antibody. Lane 1: MW ladder Opal pre-stained (p/n MB-210-0500). Lane 2: HEP-G2 WCL (p/n W09-001-GJ5). Load: 10 ug per lane. Primary antibody: ACSS2 antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit secondary HRP antibody (p/n 611-103-122) at 1:70,000 for 30 min at RT. Block: BlockOut (p/n MB-073) for 30 min at RT. Predicted/Observed size: Expect 76 kDa for ACSS2 protein.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.