

Datasheet for 600-401-AZ8**ELOVL7 Antibody****Overview**

Description:	Anti-ELOVL7 (RABBIT) Antibody - 600-401-AZ8
Item No.:	600-401-AZ8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Lipogenesis is a key event in the energy storage system and is controlled by the transcription factor sterol regulatory element-binding protein (SREBP)-1. Elongation of very long chain fatty acids protein 7 (ELOVL7) is a member of fatty acyl-CoA elongase gene family that elongates saturated very-long-chain fatty acids (SVLFA, C20:0-) and has been suggested to be involved in prostate cancer growth through saturated long-chain fatty acid metabolism. The metabolic pathways of long-chain fatty acids play an important role in the maintenance of membrane lipid composition and the generation of cell signaling precursor molecules such as eicosanoids and sphingosine-1 phosphate. Overexpression of ELOVL7 results in lipid accumulation in differentiated adipocytes; its expression is regulated by the microRNA miR-219.
Synonyms:	ELOVL7 Antibody, Elongation of very long chain fatty acids protein 7, 3-keto acyl-CoA synthase ELOVL7, ELOVL FA elongase 7
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ELOVL7
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ELOVL7 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the N-terminus of human ELOVL7.
Purity/Specificity:	Anti-ELOVL7 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ELOVL7 from other sources has not been determined.
Relevant Links:	• UniProtKB - A1L3X0 • GeneID - 79993 • NCBI - NP_001098028

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ELOVL7 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 33 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

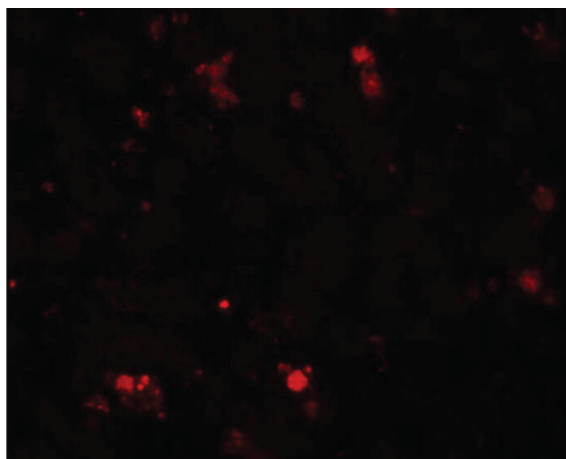
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

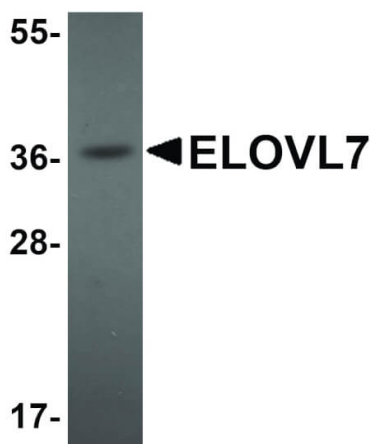
Expiration: Expiration date is one (1) year from date of receipt.

Images



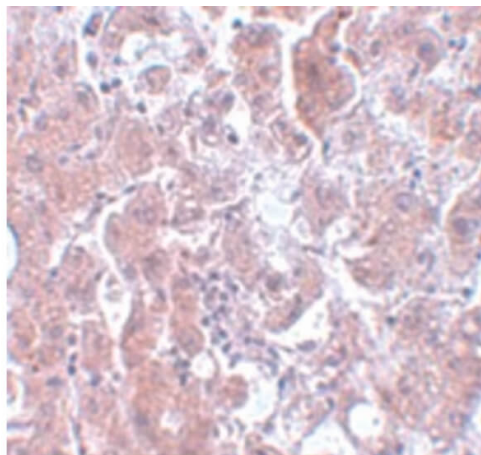
Immunofluorescence Microscopy

Immunofluorescence Microscopy of ELOVL7 antibody.
Tissue: Human liver tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ELOVL7 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ELOVL7 is a membrane protein. Staining: ELOVL7 as red fluorescent signal.



Western Blot

Western Blot of ELOVL7 antibody. Lane 1: Human liver tissue lysate with ELOVL7 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 33 kDa, 36 kDa for ELOVL7. Other band(s): ELOVL7 splice variants and isoforms.

**Immunohistochemistry**

Immunohistochemistry of ELOVL7 antibody. Tissue: human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ELOVL7 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ELOVL7 is a membrane protein. Staining: ELOVL7 as precipitated pink signal with blue nuclear counterstain.

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.