Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-C04

ELOVL6 Antibody

Overview

Description:	Anti-ELOVL6 (Rabbit) Antibody - 600-401-C04
Item No.:	600-401-C04
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat, Bovine
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 6 (ELOVL6) is a member of fatty acyl-CoA elongase gene family that converts palmitic to stearic acid and it has been shown to be a target of SREBP-1, playing an important role in de novo synthesis of long-chain saturated and monosaturated fatty acids in conjunction with fatty acid synthase and stearoyl-CoA desaturase ELOVL6 was predicted to be important for tissue fatty acid composition. Recent studies suggest that inhibition of this elongase could be a new therapeutic approach for ameliorating insulin resistance, diabetes and cardiovascular risks, even in the presence of a continuing state of obesity. Anti-ELOVL6 antibody is ideal for investigators involved with Apolipoprotein and transcription factor research.
Synonyms:	ELOVL6, Elongation of very long chain fatty acids protein 6, hELO2, Fatty acyl-CoA elongase, Fatty acid elongase 2, FACE, Long-chain fatty-acyl elongase, LCE
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ELOVL6
Reactivity:	Human, Mouse, Rat, Bovine
Immunogen Type:	Conjugated Peptide

Immunogen:	ELOVL6 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide near the n-terminus of the human ELOVL6.
Purity/Specificity:	Anti-ELOVL6 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with ELOVL6 with Human, Rat, Mouse and bovine based on 100% homology with the immunizing sequence. Cross-reactivity with ELOVL6 from other sources has not been determined.
Relevant Links:	• NCBI - 13129088 • UniProtKB - Q9H5J4 • GeneID - 79071

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ELOVL6 Antibody is tested in ELISA, WB, IF, and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~29 - 31 kDa in size corresponding to ELOVL6 by Western blotting in the appropriate cell lysate or extract. Human brain tissue lysate may be used as positive control.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IHC:	5.0 µg/mL
WB:	1.0 - 2.0 µg/mL

Formulation

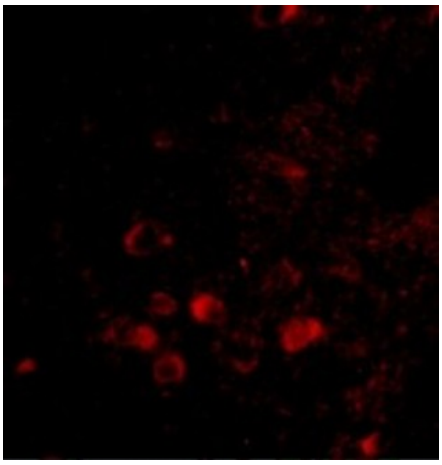
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

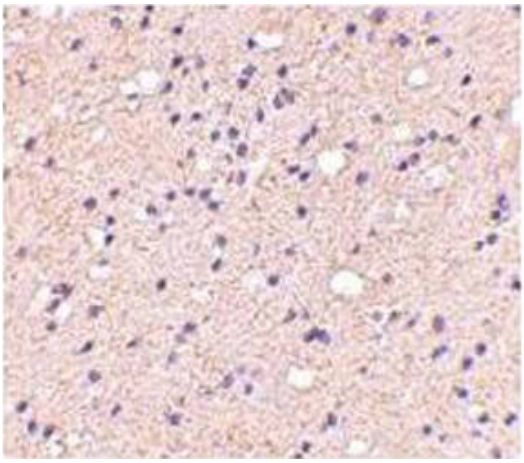
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

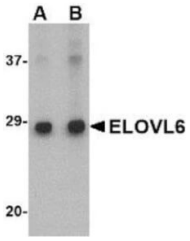
Images



Immunofluorescence Microscopy
Immunofluorescence of ELOVL6 in Human Brain tissue with ELOVL6 antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry demonstrating detection of ELOVL6 in human brain tissue. Primary antibody anti-ELOVL6 was used at a concentration of 5.0 µg/mL.



Western Blot

Western blot of ELOVL6 Antibody. Lysate: human brain tissue lysate. Primary antibody: Anti-ELOVL6 at 1.0 µg/mL (Lane A); 2.0 µg/mL (Lane B). Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.

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.