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Datasheet for 600-401-CL9

LPIN1 Antibody

Overview

Description:	Anti-LPIN1 (RABBIT) Antibody - 600-401-CL9
Item No.:	600-401-CL9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	LPIN1, also known as PAP1, is a magnesium-ion-dependent phosphatidic acid phosphohydrolase enzyme that catalyzes the penultimate step in triglyceride synthesis including the dephosphorylation of phosphatidic acid to yield diacylglycerol (reviewed in 1). LPIN1 is required for adipocyte differentiation and it also functions as a nuclear transcriptional coactivator with some peroxisome proliferator-activated receptors to modulate expression of other genes involved in lipid metabolism (1,2). Mutations in LPIN1 are associated with metabolic diseases such as type 2 diabetes and recurrent acute myoglobinuria (3,4) and it is also a candidate for several human lipodystrophy syndromes (5).
Synonyms:	LPIN1 Antibody, PAP1, KIAA0188, Phosphatidate phosphatase LPIN1, Lipin-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LPIN1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-LPIN1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the C-terminus of human LPIN1.

Purity/Specificity:	Anti-LPIN1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. LPIN1 antibody is human and mouse reactive. At least four isoforms of LPIN1 are known to exist.
Relevant Links:	• UniProtKB - Q14693 • GeneID - 23175 • NCBI - NP_001248357

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-LPIN1 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 99 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 - 1:20,000
IF:	User Optimized
IHC:	User Optimized
WB:	1-2 µg/mL

Formulation

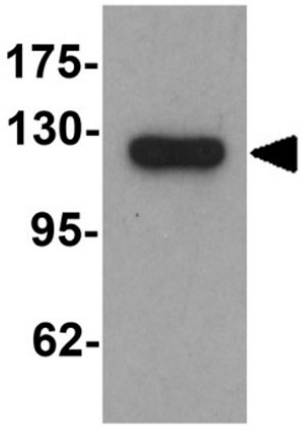
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

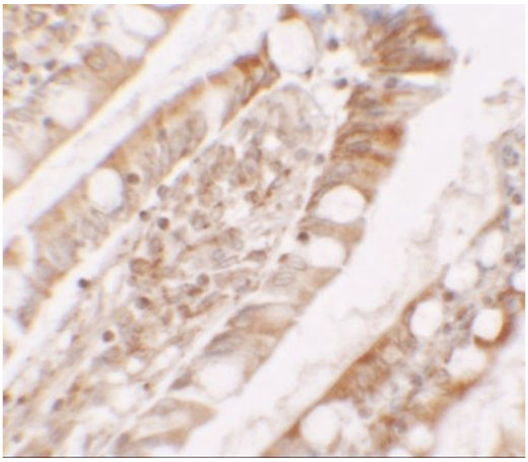
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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.

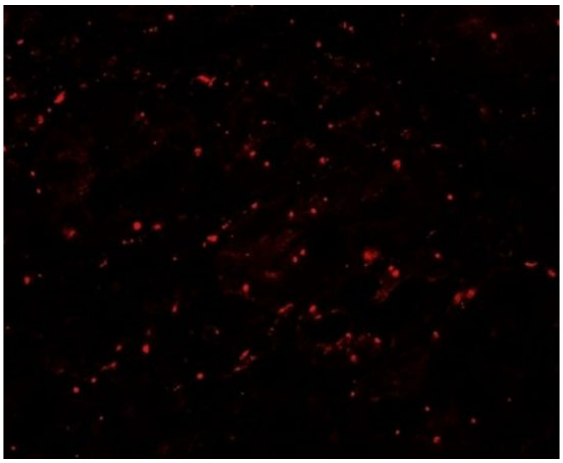
Images



Western Blot
Western blot of LPIN1.
Load: K562 cell lysate.
Primary Antibody: LPIN1 antibody at 1 µg/mL.



Immunohistochemistry
Immunohistochemistry of LPIN1.
Tissue: human small intestine tissue.
Primary Antibody: LPIN1 antibody at 5 µg/ml.



Immunofluorescence Microscopy
Immunofluorescence of LPIN1.
Tissue: human small intestine tissue.
Primary Antibody: LPIN1 antibody at 20 µg/ml.

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