

Lipin 3 Rabbit pAb

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Catalog # AP57022

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BQK8
Predicted	Rat, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93614
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Lipin 3
Epitope Specificity	551-650/851
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Humans lipodystrophy is characterized by loss of body fat, fatty liver, hypertriglyceridemia, and insulin resistance. Mice carrying mutations in the fatty liver dystrophy (fld) gene have similar phenotypes. Through positional cloning, the mouse gene responsible for fatty liver dystrophy was isolated and designated Lpin1. The nuclear protein encoded by Lpin1 was named lipin. Lpin1 mRNA was expressed at high levels in adipose tissue and was induced during differentiation of preadipocytes. These results indicated that lipin is required for normal adipose tissue development and provided a candidate gene for human lipodystrophy. Through database searches, mouse and human EST and genomic sequences with similarities to Lpin1 were identified. These included two related mouse genes (Lpin2 and Lpin3) and three human homologs (LPIN1, LPIN2, and LPIN3). Human LPIN1 gene has been mapped to 2p25.; linkages of fat mass and serum leptin levels to this same region have been noted. Human LPIN2 and LPIN3 mapped to chromosomes 18p11 and 20q11-q12, respectively. The mouse genes encoding Lpin1, Lpin2, and Lpin3 mapped to chromosome 12, 17, and 2, respectively. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	64900
Other Names	Phosphatidate phosphatase LPIN3, 3.1.3.4, Lipin-3, Lipin-3-like, LPIN3 (HGNC:14451), LIPN3L
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-

500,ELISA=1:5000-10000

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	LPIN3 (HGNC:14451)
Synonyms	LIPN3L
Function	Magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis therefore regulates fatty acid metabolism.
Cellular Location	Nucleus.
Tissue Location	Significant expression in intestine and other regions of the gastrointestinal tract.

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.