

Rabbit Polyclonal PNPLA3 antibody

Catalog Number: PNPLA3-301AP

Lot Number:

General Information

Product	PNPLA3 Antibody
Description	Affinity Purified Patatin-like phospholipase domain-containing protein 3 Antibody
Accession #	Uniprot: Q9NST1
Verified Applications	ELISA, IP, WB
Species Cross Reactivity	Bovine, Human, Mouse, Rat
Host	Rabbit
Immunogen	Synthetic peptide taken within amino acid region 150-200 on human Patatin-like phospholipase domain-containing protein 3.
Alternative Nomenclature	Acylglycerol O acyltransferase Adiponutrin ADPN C22orf20 Calcium independent phospholipase A2 epsilon IPLA2-epsilon Patatin like phospholipase domain containing 3 phospholipase A2, calcium independent, epsilon

Physical Properties

Quantity	100 µg
Volume	200 µl
Form	Affinity Purified Immunoglobulins
Purification Method	Immobilized antigen affinity chromatography
Immunoglobulin & Concentration	0.68 mg/ml IgG in antibody stabilization buffer
Storage	Store at -20°C for long term storage.

Recommended Dilutions

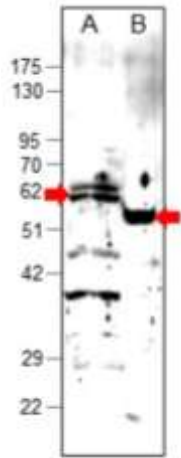
DOT Blot	1:20,000
ELISA	1:20,000
Immunohistochemistry	1:50-1:100
Immunoprecipitation	1:200
Western Blot	1:500-1:750

Related Products

Catalog

BIOTIN-Conjugated	PNPLA3-BIOTIN
FITC-Conjugated	PNPLA3-FITC
Antigenic Blocking Peptide	P-PNPLA3
Western Blot Positive Control	PC-PNPLA3

Application Verification:



WB of PNPLA3 antibody (PNPLA3-301AP) with:
A. Rat liver
B. Mouse kidney
Antibody dilution 1:500 in DiluOBuffer™ (FGI-1963).
Apparent MW of PNPLA3 in rat liver is 58 kDa.
Apparent MW of PNPLA3 in mouse kidney is 52 kDa.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

Overview:

Patatin-like Phospholipase Domain Containing protein 3 (PNPLA3) is an enzyme that acts as a triacylglycerol lipase. The PNPLA3 activity mediates triacylglycerol hydrolysis in adipocytes (1). A nonsynonymous polymorphism in PNPLA3 that is strongly associated with hepatic fat content and with elevated serum levels of alanine aminotransferase and aspartate amino transferase have been identified (2). PNPLA3 genetic variation may contribute to ancestry-related inter-individual differences in hepatic fat content and susceptibility to NAFLD (3).

The PNPLA3-selective antibodies were generated against a synthetic peptide taken within amino acid region 150-200 on human Patatin-like phospholipase domain-containing protein 3. The PNPLA3 synthetic peptide was covalently modified to achieve desired antigenic properties and was conjugated to a carrier protein before used as immunogen to raise antibodies in rabbits. The PNPLA3 antibodies are affinity purified over immobilized immunogenic peptide affinity matrix and stabilized with preservatives for long-term storage. Antigenic blocking peptide (P-PNPLA3) and western blot positive controls (PC-PNPLA3) are available. Antibodies can be conjugated to fluorophores or secondary enzymes upon request at nominal cost. For a complete listing of all FabGennix antibodies and lab services, please visit <http://fabgennix.com>.

References

1. Ahmadian, Maryam, et al. "Triacylglycerol metabolism in adipose tissue." (2007): 229-237.
2. He, Shaoqing, et al. "A sequence variation (I148M) in PNPLA3 associated with nonalcoholic fatty liver disease disrupts triglyceride hydrolysis." *Journal of Biological Chemistry* 285.9 (2010): 6706-6715.
3. Romeo, Stefano, et al. "Genetic variation in PNPLA3 confers susceptibility to nonalcoholic fatty liver disease." *Nature genetics* 40.12 (2008): 1461-1465.

* For users who may require large amounts of the products listed above, please inquire about bulk material discounts.
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.