

PNPLA3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16280a

Specification

PNPLA3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [Q9NST1](#)

PNPLA3 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 80339

Other Names

Patatin-like phospholipase domain-containing protein 3, Acylglycerol O-acyltransferase, 231-, Adiponutrin, Calcium-independent phospholipase A2-epsilon, iPLA2-epsilon, PNPLA3, ADPN, C22orf20

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PNPLA3 Antibody (N-term) Blocking Peptide - Protein Information

Name PLPL3

Function

Specifically catalyzes coenzyme A (CoA)-dependent acylation of 1-acyl-sn-glycerol 3-phosphate (2-lysophosphatidic acid/LPA) to generate phosphatidic acid (PA), an important metabolic intermediate and precursor for both triglycerides and glycerophospholipids. Does not esterify other lysophospholipids. Acyl donors are long chain (at least C16) fatty acyl-CoAs: arachidonoyl-CoA, linoleoyl-CoA, oleoyl-CoA and at a lesser extent palmitoyl-CoA (PubMed:22560221). Additionally possesses low triacylglycerol lipase and CoA-independent acylglycerol transacylase activities and thus may play a role in acyl-chain remodeling of triglycerides (PubMed:15364929, PubMed:20034933, PubMed:22560221). In vitro may express hydrolytic activity against glycerolipids triacylglycerol, diacylglycerol and monoacylglycerol, with a strong preference for oleic acid as the acyl moiety (PubMed:21878620). However, the triacylglycerol hydrolase activity is controversial and may be very low (PubMed:22560221). Possesses

phospholipase A2 activity (PubMed:15364929).

Cellular Location

Membrane; Single-pass type II membrane protein. Lipid droplet

PNPLA3 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PNPLA3 Antibody (N-term) Blocking Peptide - Images**PNPLA3 Antibody (N-term) Blocking Peptide - Background**

The protein encoded by this gene is a triacylglycerol lipase that mediates triacylglycerol hydrolysis in adipocytes. The encoded protein, which appears to be membrane bound, may be involved in the balance of energy usage/storage in adipocytes.

PNPLA3 Antibody (N-term) Blocking Peptide - References

Santoro, N., et al. Hepatology 52(4):1281-1290(2010) Valenti, L., et al. Hepatology 52(4):1274-1280(2010) Rotman, Y., et al. Hepatology 52(3):894-903(2010) Speliotes, E.K., et al. Hepatology 52(3):904-912(2010) Pare, G., et al. PLoS Genet. 6 (6), E1000981 (2010) :