

Mouse Pnpla3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18690b

Specification

Mouse Pnpla3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [Q91WW7](#)

Mouse Pnpla3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 116939

Other Names

Patatin-like phospholipase domain-containing protein 3, Acylglycerol O-acyltransferase, 231-, Adiponutrin, Calcium-independent phospholipase A2-epsilon, iPLA2-epsilon, Pnpla3, Adpn

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.

Mouse Pnpla3 Antibody (C-term) Blocking Peptide - Protein Information

Name Pnpla3 {ECO:0000312|MGI:MGI:2151796}

Synonyms Adpn

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 (By similarity). In vitro may express hydrolytic activity against glycerolipids triacylglycerol, diacylglycerol and monoacylglycerol, with a strong preference for oleic acid as the acyl moiety (By similarity). However, the triacylglycerol hydrolase activity is controversial and may be very low (PubMed:22560221). Possesses phospholipase A2 activity (By similarity).

Cellular Location

Membrane; Single-pass membrane protein. Lipid droplet

Tissue Location

Restricted to adipose tissue. Expressed in inguinal and epididymal white adipose tissues and in interscapular brown adipose tissue (PubMed:11431482). Also expressed in liver in response to high- sucrose diet (PubMed:22560221).

Mouse Pnpla3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Pnpla3 Antibody (C-term) Blocking Peptide - Images**Mouse Pnpla3 Antibody (C-term) Blocking Peptide - Background**

Multifunctional enzyme which has both triacylglycerol lipase and acylglycerol O-acyltransferase activities (By similarity).

Mouse Pnpla3 Antibody (C-term) Blocking Peptide - References

Chen, W., et al. Hepatology 52(3):1134-1142(2010)Hoekstra, M., et al. J. Hepatol. 52(2):244-251(2010)Kershaw, E.E., et al. Diabetes 55(1):148-157(2006)Baulande, S., et al. J. Biol. Chem. 276(36):33336-33344(2001)