

Mouse Pnpla3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18690b

Specification

Mouse Pnpla3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q91WW7
Other Accession	NP_473429.2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	45772
Antigen Region	366-393

Mouse Pnpla3 Antibody (C-term) - 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

Target/Specificity

This Mouse Pnpla3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 366-393 amino acids from the C-terminal region of mouse Pnpla3.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Pnpla3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Pnpla3 Antibody (C-term) - 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

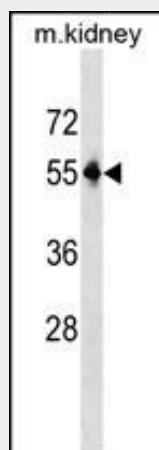
Tissue Location

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) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Mouse Pnpla3 Antibody (C-term) - Images

Mouse Pnpla3 Antibody (C-term) (Cat. #AP18690b) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the Pnpla3 antibody detected the Pnpla3 protein (arrow).

Mouse Pnpla3 Antibody (C-term) - Background

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

Mouse Pnpla3 Antibody (C-term) - 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)