10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PNPLA4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13971b

Specification

PNPLA4 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P41247
Other Accession	NP_004641.1, NP_001135861.1, NP_001166143.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**27980**
Antigen Region	**171-199**

PNPLA4 Antibody (C-term) - Additional Information

Gene ID 8228

Other Names
Patatin-like phospholipase domain-containing protein 4, Protein GS2, PNPLA4, DXS1283E, GS2

Target/Specificity
This PNPLA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 171-199 amino acids from the C-terminal region of human PNPLA4.

Dilution
WB~~1:1000
IHC-P~~1:10~50

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
PNPLA4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PNPLA4 Antibody (C-term) - Protein Information

Name PNPLA4 (HGNC:24887)

Function Has abundant triacylglycerol lipase activity (PubMed:15364929, PubMed:16150821, PubMed:17603008). Transfers fatty acid from triglyceride to retinol, hydrolyzes retinylesters, and generates 1,3-diacylglycerol from triglycerides (PubMed:17603008). Additionally possesses acylglycerol transacylase and phospholipase A2 activities (PubMed:15364929, PubMed:17603008).

Cellular Location
Mitochondrion.

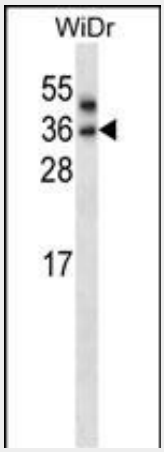
Tissue Location
Expressed in all tissues examined, including heart, brain, placenta, lung, liver, muscle, kidney, pancreas and spleen

PNPLA4 Antibody (C-term) - Protocols

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

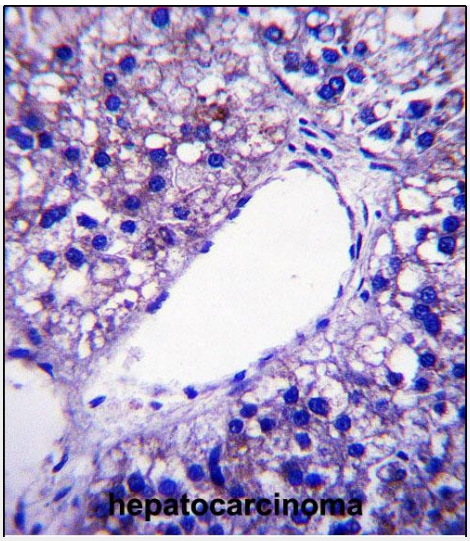
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PNPLA4 Antibody (C-term) - Images



PNPLA4 Antibody (C-term) (Cat. #AP13971b) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the PNPLA4 antibody detected the PNPLA4 protein (arrow).

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PNPLA4 Antibody (C-term) (Cat. #AP13971b)immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PNPLA4 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

PNPLA4 Antibody (C-term) - Background

This gene encodes a member of the patatin-like family of phospholipases. The encoded enzyme has both triacylglycerol lipase and transacylase activities and may be involved in adipocyte triglyceride homeostasis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome Y.

PNPLA4 Antibody (C-term) - References

Gao, J.G., et al. Mol. Genet. Metab. 96(4):253-260(2009)
Kienesberger, P.C., et al. J. Lipid Res. 50 SUPPL, S63-S68 (2009) :
Johansson, L.E., et al. PLoS ONE 4 (4), E5327 (2009) :
Gao, J.G., et al. Biochem. Biophys. Res. Commun. 360(2):501-506(2007)
Wilson, P.A., et al. J. Lipid Res. 47(9):1940-1949(2006)