

# PNPLA4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13971b

## Product Information

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Application	WB, IHC-P, E
Primary Accession	<a href="#">P41247</a>
Other Accession	<a href="#">NP_004641.1</a> , <a href="#">NP_001135861.1</a> , <a href="#">NP_001166143.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32515
Calculated MW	27980
Antigen Region	171-199

## Additional Information

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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~~1:100~500 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	PNPLA4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	PNPLA4 ( <a href="#">HGNC:24887</a> )
Function	Has abundant triacylglycerol lipase activity (PubMed: <a href="#">15364929</a> , PubMed: <a href="#">16150821</a> , PubMed: <a href="#">17603008</a> ). 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

## Background

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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.

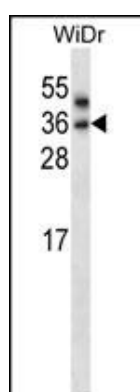
## References

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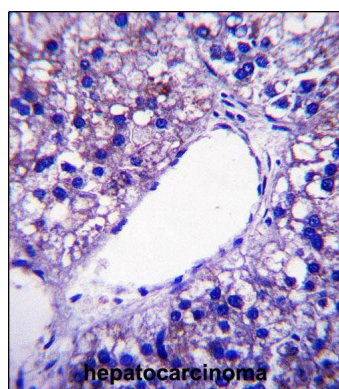
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Johansson, L.E., et al. PLoS ONE 4 (4), E5327 (2009) :  
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## Images

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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).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.