

**PNPLA1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13348A**

## Specification

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### PNPLA1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">Q8N8W4</a>
Other Accession	<a href="#">NP_001139188.1</a> , <a href="#">NP_001139189.2</a> , <a href="#">NP_775947.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57875
Antigen Region	1-30

### PNPLA1 Antibody (N-term) - Additional Information

**Gene ID** 285848

#### Other Names

Patatin-like phospholipase domain-containing protein 1, 311-, PNPLA1

#### Target/Specificity

This PNPLA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PNPLA1.

#### Dilution

WB~~1:1000

#### 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

PNPLA1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### PNPLA1 Antibody (N-term) - Protein Information

**Name** PNPLA1 ([HGNC:21246](#))

**Function** Omega-hydroxyceramide transacylase involved in the synthesis of

omega-O-acylceramides (esterified omega-hydroxyacyl-sphingosine; EOS), which are extremely hydrophobic lipids involved in skin barrier formation (PubMed:[27751867](#), PubMed:[28248318](#)). Catalyzes the last step of the synthesis of omega-O-acylceramides by transferring linoleic acid from triglycerides to an omega-hydroxyceramide (PubMed:[27751867](#), PubMed:[28248318](#)). Omega-O-acylceramides, are required for the biogenesis of lipid lamellae in the stratum corneum and the formation of the cornified lipid envelope which are essential for the epidermis barrier function (PubMed:[22246504](#), PubMed:[27751867](#), PubMed:[28248318](#)). These lipids also play a role in keratinocyte differentiation (By similarity). May also act on omega-hydroxylated ultra-long chain fatty acids (omega-OH ULCFA) and acylglucosylceramides (GlcEOS) (By similarity).

#### Cellular Location

Cytoplasm.

#### Tissue Location

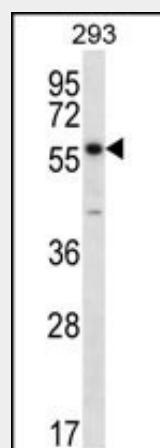
Expressed in the digestive system. Expressed in the epidermis of skin keratinocytes. Strongly expressed in the granular layer. Expressed in the upper epidermis and eccrine sweat glands of the dermis and in the region of keratin filament bundles, which is more pronounced in upper epidermal layers and in the lower cornified layers

#### PNPLA1 Antibody (N-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](#)

#### PNPLA1 Antibody (N-term) - Images



PNPLA1 Antibody (N-term) (Cat. #AP13348a) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the PNPLA1 antibody detected the PNPLA1 protein (arrow).

#### PNPLA1 Antibody (N-term) - Background

Human patatin-like phospholipases, such as PNPLA1, have

been implicated in regulation of adipocyte differentiation and have been induced by metabolic stimuli (Wilson et al., 2006 [PubMed 16799181]).

#### **PNPLA1 Antibody (N-term) - References**

Kienesberger, P.C., et al. J. Lipid Res. 50 SUPPL, S63-S68 (2009) :  
Johansson, L.E., et al. PLoS ONE 4 (4), E5327 (2009) :  
De Chaudhuri, S., et al. Environ. Health Perspect. 116(4):501-505(2008)  
Wilson, P.A., et al. J. Lipid Res. 47(9):1940-1949(2006)