

PTPLAD1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18866a

Specification

PTPLAD1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9P035
Other Accession	O8K2C9 , A7YY55 , NP_057479.2
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43160
Antigen Region	32-58

PTPLAD1 Antibody (N-term) - Additional Information

Gene ID 51495

Other Names

Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 3, 3-hydroxyacyl-CoA dehydratase 3, HACD3, Butyrate-induced protein 1, B-ind1, hB-ind1, Protein tyrosine phosphatase-like protein PTPLAD1, Protein-tyrosine phosphatase-like A domain-containing protein 1, PTPLAD1, BIND1, HACD3

Target/Specificity

This PTPLAD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-58 amino acids from the N-terminal region of human PTPLAD1.

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

PTPLAD1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PTPLAD1 Antibody (N-term) - Protein Information

Name HACD3 {ECO:0000303|PubMed:18554506, ECO:0000312|HGNC:HGNC:24175}

Function Catalyzes the third of the four reactions of the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process, allows the addition of two carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle. This enzyme catalyzes the dehydration of the 3-hydroxyacyl-CoA intermediate into trans-2,3-enoyl-CoA, within each cycle of fatty acid elongation. Thereby, it participates in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. May be involved in Rac1-signaling pathways leading to the modulation of gene expression. Promotes insulin receptor/INSR autophosphorylation and is involved in INSR internalization (PubMed:[25687571](#)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

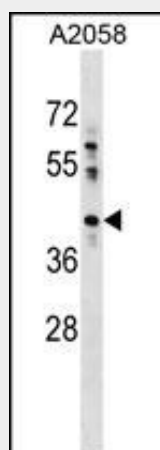
Highly expressed in testis, kidney, brain, liver and weakly in skeletal muscle, spleen and heart. No expression detected in leukocytes.

PTPLAD1 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](#)

PTPLAD1 Antibody (N-term) - Images



PTPLAD1 Antibody (N-term)(Cat. #AP18866a) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the PTPLAD1 antibody detected the PTPLAD1 protein (arrow).

PTPLAD1 Antibody (N-term) - Background

Responsible for the dehydration step in very long-chain fatty acids (VLCFAs) synthesis. Involved in

Rac1-signaling pathways leading to the modulation of gene expression.

PTPLAD1 Antibody (N-term) - References

Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010)
Taguwa, S., et al. J. Virol. 83(20):10427-10436(2009)
Taguwa, S., et al. J. Virol. 82(6):2631-2641(2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Sabbah, M., et al. Gene 374, 128-133 (2006) :