

PTPLAD1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP18866a**Specification**

PTPLAD1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9P035](#)**PTPLAD1 Antibody (N-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PTPLAD1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PTPLAD1 Antibody (N-term) Blocking Peptide - Images

PTPLAD1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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) :