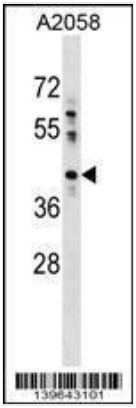
PTPLAD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTPLAD1, Polyclonal Antibody
Full Product Name	PTPLAD1, NT (PTPLAD1, BIND1, HACD3, 3-hydroxyacyl-CoA dehydratase 3, Butyrate-induced protein 1, Protein tyrosine phosphatase-like protein PTPLAD1, Protein-tyrosine phosphatase-like A domain-containing protein 1)
Product Gene Name	anti-PTPLAD1 antibody
Product Synonym Names	Anti -PTPLAD1, NT (PTPLAD1, BIND1, HACD3, 3-hydroxyacyl-CoA dehydratase 3, Butyrate-induced protein 1, Protein tyrosine phosphatase-like protein PTPLAD1, Protein-tyrosine phosphatase-like A domain-containing protein 1)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	43,160 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (65822804..65870693). Location: 15q22.2
3D Structure	ModBase 3D Structure for Q9P035
Immunogen	PTPLAD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic between 31-58 amino acids selected from the N-terminal region of human PTPLAD1.
Product Categories/Family for anti-PTPLAD1 antibody	Antibodies; Abs to Enzymes; Phosphatase
Applications Tested/Suitable for anti-PTPLAD1 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-PTPLAD1 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-PTPLAD1 antibody	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.
Other Notes	Small volumes of anti-PTPLAD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PTPLAD1 purchase	MBS648043 is an antibody targeting PTPLAD1. Also known as PTPLAD1, NT (PTPLAD1, BIND1, HACD3, 3-hydroxyacyl-CoA dehydratase 3, Butyrate-induced protein 1, Protein tyrosine phosphatase-like protein PTPLAD1, Protein-tyrosine phosphatase-like A domain-containing protein 1). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PTPLAD1 antibody
PTPLAD1 Antibody (N-term) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the PTPLAD1 antibody detected the PTPLAD1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTPLAD1. It may not necessarily be applicable to this product.

NCBI GI #	27370575
NCBI GeneID	51495
NCBI Accession #	AAH35508.1
UniProt Primary Accession #	Q9P035
UniProt Secondary Accession #	Q280Z3; Q6PD63; Q8IUI5; Q8NC86; Q8NCB1; Q96T12; Q9NQA7; A0PJA1
UniProt Related Accession #	Q9P035
NCBI Official Full Name	PTPLAD1 protein, partial
NCBI Official Synonym Full Names	protein tyrosine phosphatase-like A domain containing 1
NCBI Official Symbol	PTPLAD1
NCBI Official Synonym Symbols	HACD3; B-IND1; HSPC121
UniProt Protein Name	Very-long-chain (3R)-3-hydroxyacyl-[acyl-carrier protein] dehydratase 3
UniProt Synonym Protein Names	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
UniProt Gene Name	PTPLAD1
UniProt Synonym Gene Names	BIND1; HACD3; HACD3; B-ind1; hB-ind1
UniProt Entry Name	HACD3_HUMAN
NCBI Protein Information	very-long-chain (3R)-3-hydroxyacyl-[acyl-carrier protein] dehydratase 3; very-long-chain (3R)-3-hydroxyacyl-[acyl-carrier protein] dehydratase 3; hB-ind1; butyrate-induced protein 1; butyrate-induced transcript 1; 3-hydroxyacyl-CoA dehydratase 3; protein tyrosine phosphatase-like protein PTPLAD1; protein-tyrosine phosphatase-like A domain-containing protein 1

UniProt Comments for PTPLAD1	Function: Responsible for the dehydration step in very long-chain fatty acid (VLCFA) synthesis. Involved in Rac1-signaling pathways leading to the modulation of gene expression. Ref.1 Ref.8 Catalytic activity: A very-long-chain (3R)-3-hydroxyacyl-[acyl-carrier protein] = a very-long-chain trans-2,3-dehydroacyl-[acyl-carrier protein] + H2O. Ref.8 Subunit structure: Interacts with the condensation enzymes of the ELOVL family. Interacts with RAC1. Ref.1 Ref.8 Subcellular location: Endoplasmic reticulum membrane; Multi-pass membrane protein Ref.8. Tissue specificity: Highly expressed in testis, kidney, brain, liver and weakly in skeletal muscle, spleen and heart. No expression detected in leukocytes. Ref.1 Ref.8 Induction: By AKAP12 and histone deacetylase inhibitors such as sodium butyrate. Ref.6 Sequence similarities: Belongs to the very long-chain fatty acids dehydratase HACD family.Contains 1 CS domain. Sequence caution: The sequence AAF29085.1 differs from that shown. Reason: Frameshift at position 356. The sequence BAC11249.1 differs from that shown. Reason: Frameshift at position 359.
Research Articles on PTPLAD1	**1.** Genes in the erythroid differentiation and cell cycle regulation pathways influence interindividual variation in RBC indices. Our results provide insights into the molecular basis underlying variation in RBC traits.
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