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PTPLAD1 Rabbit pAb

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Catalog # AP59062

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9P035
Reactivity	Mouse
Predicted	Human, Rat, Dog, Pig, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43160
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PTPLAD1
Epitope Specificity	1-100/362
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the very long-chain fatty acids dehydratase HACD family. Contains 1 CS domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PTPLAD1 is a component of Rac1-signaling pathways leading to the modulation of gene expression. It potentiates different effects of the small GTPase Rac1, such as c-Jun N-terminal kinase activation and transcriptional activity of nuclear factor kappaB (NF-kappaB).It plays a crucial role in HCV RNA replication and the propagation of JFH1 virus through interaction with viral and host proteins.

Additional Information

Gene ID	51495
Other Names	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 3, 4.2.1.134, 3-hydroxyacyl-CoA dehydratase 3, HACD3, Butyrate-induced protein 1, B-ind1, hB-ind1, Protein-tyrosine phosphatase-like A domain-containing protein 1 {ECO:0000312|HGNC:HGNC:24175}, HACD3 {ECO:0000303|PubMed:18554506, ECO:0000312|HGNC:HGNC:24175}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Background

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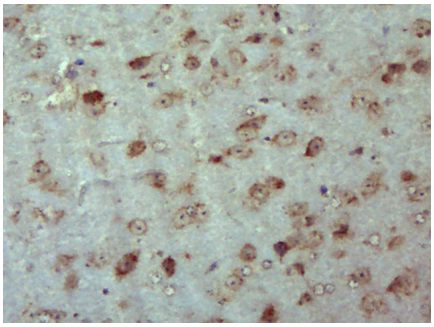
Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PTPLAD1) Polyclonal Antibody, Unconjugated (AP59062) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.