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PTPLAD2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57588

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q5VWC8
Reactivity	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27520
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PTPLAD2
Epitope Specificity	1-100/232
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi pass membrane protein
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PTPLAD2 is a protein that belongs to the PTPLA family. The function of PTPLAD2 remains unknown.

Additional Information

Gene ID	401494
Other Names	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 4, 4.2.1.134, 3-hydroxyacyl-CoA dehydratase 4, HACD4, Protein-tyrosine phosphatase-like A domain-containing protein 2 {ECO:0000312|HGNC:HGNC:20920}, HACD4 {ECO:0000303|PubMed:18554506, ECO:0000312|HGNC:HGNC:20920}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	HACD4 {ECO:0000303|PubMed:18554506,

ECO:0000312|HGNC:HGNC:20920}

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.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Highly expressed in leukocytes, and low expression in heart, spleen, kidney, and placenta.