



Rabbit Anti-PTPLA antibody

SL4428R

Product Name:	PTPLA
Chinese Name:	蛋白酪氨酸磷酸酶PTPLA抗体
Alias:	3-hydroxyacyl-CoA dehydratase 1; CAP; Cementum attachment protein; HACD1; HACD1_HUMAN; Protein-tyrosine phosphatase-like member A; PTPLA; RP23-334M9.1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PTPLA:1-100/288<Cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene contains a characteristic catalytic motif of the protein tyrosine phosphatases (PTPs) family. The PTP motif of this protein has the highly conserved arginine residue replaced by a proline residue; thus it may represent a distinct class of PTPs. Members of the PTP family are known to be signaling molecules

that regulate a variety of cellular processes. This gene was preferentially expressed in both adult and fetal heart. A much lower expression level was detected in skeletal and smooth muscle tissues, and no expression was observed in other tissues. The tissue specific expression in the developing and adult heart suggests a role in regulating cardiac development and differentiation. [provided by RefSeq, Jul 2008]

Function:

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

Subcellular Location:

Endoplasmic reticulum membrane.

Tissue Specificity:

Highly expressed in the myocardium, and to a lesser extent in skeletal and smooth muscular tissues including those from stomach, jejunum, and bladder.

Similarity:

Belongs to the very long-chain fatty acids dehydratase HACD family.

SWISS:

B0YJ81

Gene ID:

9200

Database links:

[Entrez Gene: 9200](#)Human

[Entrez Gene: 30963](#)Mouse

[Omim: 610467](#)Human

[SwissProt: B0YJ81](#)Human

[SwissProt: Q9QY80](#)Mouse

[Unigene: 114062](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

