

PLRP2 Rabbit pAb

Catalog # AP96843

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P54317
Other Accession	P54317
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51961
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PLRP2
Epitope Specificity	301-400/469
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the AB hydrolase superfamily. Lipase family. Contains 1 PLAT domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a lipase that hydrolyzes galactolipids, the main components of plant membrane lipids. An allelic polymorphism in this gene results in both coding and non-coding variants; the reference genome represents the non-coding allele. [provided by RefSeq, Aug 2015]

Additional Information

Gene ID	5408
Other Names	PLRP2; LIPR2_HUMAN; PNLIPRP2; PL-RP2; Cytotoxic T lymphocyte lipase; Galactolipase; Triacylglycerol lipase; LIPR2_MOUSE; LIPR2_RAT; Secretory glycoprotein GP-3; pancreatic lipase related protein 2 (gene/pseudogene); pancreatic lipase related protein 2
Dilution	WB=1:500-2000,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	PNLIPRP2 (HGNC:9157)
Function	Lipase that primarily hydrolyzes triglycerides and galactosylglycerides

(PubMed:[15287741](#), PubMed:[17401110](#), PubMed:[18702514](#), PubMed:[19451396](#), PubMed:[20083229](#), PubMed:[21865348](#), PubMed:[26494624](#)). In neonates, may play a major role in pancreatic digestion of dietary fats such as milk fat globules enriched in long- chain triglycerides (PubMed:[19824014](#), PubMed:[21652702](#), PubMed:[23732775](#)). Hydrolyzes short-, medium- and long-chain fatty acyls in triglycerides without apparent positional specificity (PubMed:[15287741](#), PubMed:[17401110](#), PubMed:[18702514](#), PubMed:[21652702](#), PubMed:[21865348](#)). Can completely deacylate triacylglycerols (PubMed:[21865348](#)). When the liver matures and bile salt synthesis increases, likely functions mainly as a galactolipase and monoacylglycerol lipase. Hydrolyzes monogalactosyldiglycerols (MGDG) and digalactosyldiacylglycerols (DGDG) present in a plant-based diet, releasing long-chain polyunsaturated fatty acids (PubMed:[15287741](#), PubMed:[17401110](#), PubMed:[18702514](#), PubMed:[20083229](#), PubMed:[26494624](#)). Hydrolyzes medium- and long-chain fatty acyls in galactolipids (PubMed:[18702514](#), PubMed:[20083229](#)). May act together with LIPF to hydrolyze partially digested triglycerides (PubMed:[23732775](#)). Hydrolyzes long-chain monoglycerides with high efficiency (PubMed:[17401110](#), PubMed:[21652702](#), PubMed:[23732775](#)). In cytotoxic T cells, contributes to perforin-dependent cell lysis, but is unlikely to mediate direct cytotoxicity (By similarity). Also has low phospholipase activity (PubMed:[17401110](#), PubMed:[18702514](#)). In neurons, required for the localization of the phospholipid 1-oleoyl-2-palmitoyl-PC (OPPC) to neurite tips through acyl chain remodeling of membrane phospholipids (By similarity). The resulting OPPC-rich lipid membrane domain recruits the t-SNARE protein STX4 by selectively interacting with the STX4 transmembrane domain and this promotes surface expression of the dopamine transporter SLC6A3/DAT at neurite tips by facilitating fusion of SLC6A3-containing transport vesicles with the plasma membrane (By similarity).

Cellular Location

Secreted. Zymogen granule membrane {ECO:0000250|UniProtKB:P54318}; Peripheral membrane protein {ECO:0000250|UniProtKB:P54318}. Cell projection, neuron projection {ECO:0000250|UniProtKB:P54318}. Note=Localizes to neurite tips in neuronal cells. {ECO:0000250|UniProtKB:P54318}

Tissue Location

Pancreas..

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