Best Tools for immunology Research

PC-PLD1 (phospho Thr147) Polyclonal Antibody

Catalog No :	YP0487
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	PC-PLD1
Fields :	>>Glycerophospholipid metabolism;>>Ether lipid metabolism;>>Metabolic pathways;>>Ras signaling pathway;>>cAMP signaling pathway;>>Sphingolipid signaling pathway;>>Phospholipase D signaling pathway;>>Endocytosis;>>Fc gamma R-mediated phagocytosis;>>Glutamatergic synapse;>>GnRH signaling pathway;>>Parathyroid hormone synthesis, secretion and action;>>Pathways in cancer;>>Chemical carcinogenesis - reactive oxygen species;>>Pancreatic cancer;>>Choline metabolism in cancer
Gene Name :	PLD1
Protein Name :	Phospholipase D1
Human Gene Id :	5337
Human Swiss Prot No :	Q13393
Mouse Swiss Prot No :	Q9Z280
Rat Gene Id :	25096
Rat Swiss Prot No :	P70496
Immunogen :	Synthesized phospho-peptide around the phosphorylation site of human PC-PLD1 (phospho Thr147)
Specificity :	Phospho-PC-PLD1 (T147) Polyclonal Antibody detects endogenous levels of PC-PLD1 protein only when phosphorylated at T147.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
	Polyclonal, Rabbit,IgG

Dilution::	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	120kD
Cell Pathway :	Glycerophospholipid metabolism;Ether lipid metabolism;Endocytosis;Fc gamma R-mediated phagocytosis;GnRH;Pathways in cancer;Pancreatic cancer;
Background :	This gene encodes a phosphatidylcholine-specific phospholipase which catalyzes the hydrolysis of phosphatidylcholine in order to yield phosphatidic acid and choline. The enzyme may play a role in signal transduction and subcellular trafficking. Alternative splicing results in multiple transcript variants with both catalytic and regulatory properties. [provided by RefSeq, Sep 2011],
Function :	catalytic activity:A phosphatidylcholine + H(2)O = choline + a phosphatidate.,enzyme regulation:Stimulated by phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate, activated by the phosphokinase C-alpha, by the ADP-ribosylation factor-1 (ARF-1), and to a lesser extent by GTP-binding proteins: RHO A, RAC-1 and CDC42. Inhibited by oleate.,function:Implicated as a critical step in numerous cellular pathways, including signal transduction, membrane trafficking, and the regulation of mitosis. May be involved in the regulation of perinuclear intravesicular membrane traffic.,online information:Phospholipase D entry,similarity:Belongs to the phospholipase D family.,similarity:Contains 1 PH domain.,similarity:Contains 1 PX (phox homology) domain.,similarity:Contains 2 PLD phosphodiesterase domains.,subunit:Interacts with PIP5K1A.,tissue specificity:Expressed abundant
Subcellular Location :	Cytoplasm, perinuclear region . Endoplasmic reticulum membrane ; Lipid-anchor ; Cytoplasmic side . Golgi apparatus membrane ; Lipid-anchor ; Cytoplasmic side . Late endosome membrane ; Lipid-anchor ; Cytoplasmic side .
Expression :	Expressed abundantly in the pancreas and heart and at high levels in brain, placenta, spleen, uterus and small intestine.
Tag :	orthogonal
Sort :	11713
No2 :	3831S

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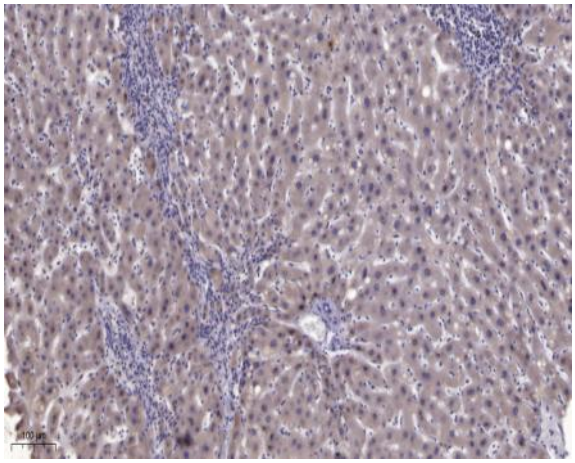
No4 : 1

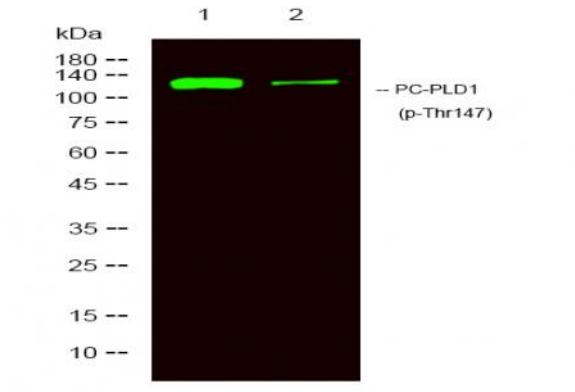
Host : Rabbit

Modifications : Phospho

Products Images



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).



Western Blot analysis of 1 Hela, 2 treated with LPS 100ng/mL 20mim,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000