

## PC-PLD1 Polyclonal Antibody

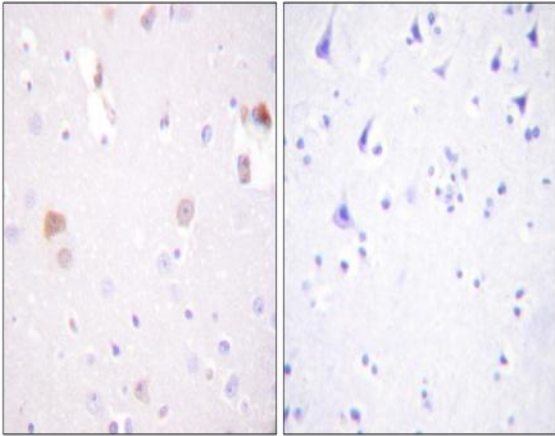
<b>Catalog No :</b>	YT3618
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	PC-PLD1
<b>Fields :</b>	>>Glycerophospholipid metabolism;>>Ether lipid metabolism;>>Metabolic pathways;>>Ras signaling pathway;>>cAMP signaling pathway;>>Sphingolipid signaling pathway;>>Phospholipase 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
<b>Gene Name :</b>	PLD1
<b>Protein Name :</b>	Phospholipase D1
<b>Human Gene Id :</b>	5337
<b>Human Swiss Prot No :</b>	Q13393
<b>Mouse Swiss Prot No :</b>	Q9Z280
<b>Rat Gene Id :</b>	25096
<b>Rat Swiss Prot No :</b>	P70496
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human PLD1. AA range:527-576
<b>Specificity :</b>	PC-PLD1 Polyclonal Antibody detects endogenous levels of PC-PLD1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

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<b>Dilution :</b>	IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	124kD
<b>Cell Pathway :</b>	Glycerophospholipid metabolism;Ether lipid metabolism;Endocytosis;Fc gamma R-mediated phagocytosis;GnRH;Pathways in cancer;Pancreatic cancer;
<b>Background :</b>	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],
<b>Function :</b>	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
<b>Subcellular Location :</b>	Cytoplasm, perinuclear region . Endoplasmic reticulum membrane ; Lipid-anchor ; Cytoplasmic side . Golgi apparatus membrane ; Lipid-anchor ; Cytoplasmic side . Late endosome membrane ; Lipid-anchor ; Cytoplasmic side .
<b>Expression :</b>	Expressed abundantly in the pancreas and heart and at high levels in brain, placenta, spleen, uterus and small intestine.

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## Products Images



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using PLD1 Antibody. The picture on the right is blocked with the synthesized peptide.