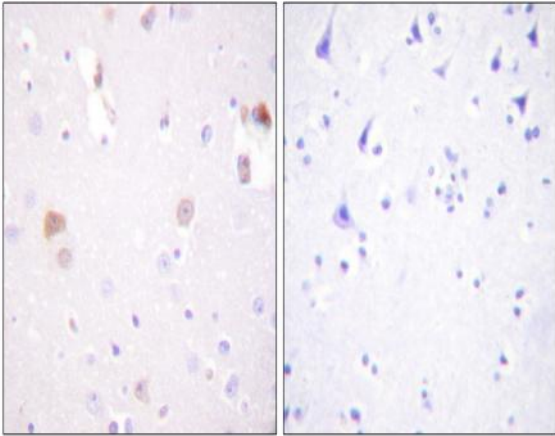


PC-PLD1 Polyclonal Antibody

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| Catalog No : | YT3618 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | IHC;IF;ELISA |
| 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 : | The antiserum was produced against synthesized peptide derived from human PLD1. AA range:527-576 |
| Specificity : | PC-PLD1 Polyclonal Antibody detects endogenous levels of PC-PLD1 protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |

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| Dilution : | IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200 |
| 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) |
| Molecularweight : | 124kD |
| 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. |

Products Images



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