

Product Name: PC-PLD1 (phospho Ser561) Rabbit Polyclonal Antibody
Catalog #: APRab05219



Summary

Production Name	PC-PLD1 (phospho Ser561) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PLD1
Alternative Names	PLD1; Phospholipase D1; PLD 1; hPLD1; Choline phosphatase 1; Phosphatidylcholine-hydrolyzing phospholipase D1
Gene ID	5337.0
SwissProt ID	Q13393.The antiserum was produced against synthesized peptide derived from human PLD1 around the phosphorylation site of Ser561. AA range:527-576

Application

Dilution Ratio	IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:10000.Not yet tested in other
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applications.

Molecular Weight

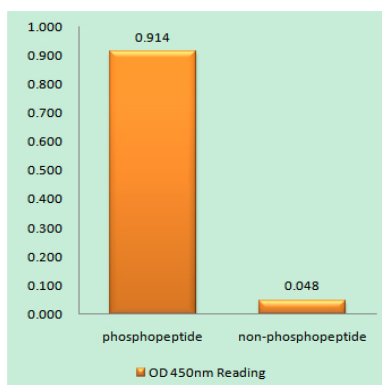
Background

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], catalytic activity: A phosphatidylcholine + H₂O = choline + a phosphatidate, enzyme regulation: Stimulated by phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate, activated by the phosphokinase C- α , 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 abundantly in the pancreas and heart and at high levels in brain, placenta, spleen, uterus and small intestine.

Research Area

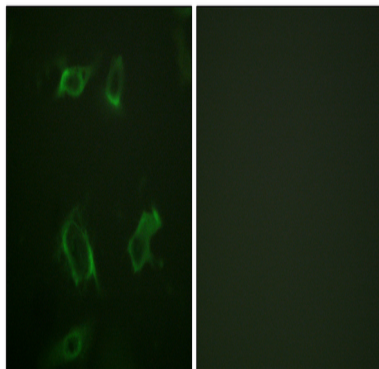
Glycerophospholipid metabolism; Ether lipid metabolism; Endocytosis; Fc gamma R-mediated phagocytosis; GnRH; Pathways in cancer; Pancreatic cancer;

Image Data

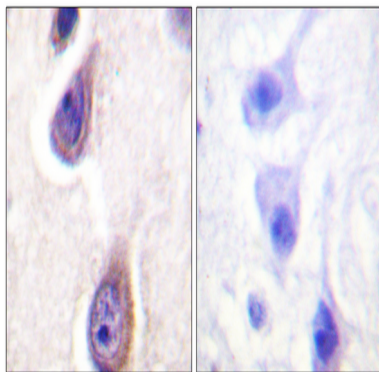


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PLD1 (Phospho-Ser561) Antibody

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Immunofluorescence analysis of HepG2 cells, using PLD1 (Phospho-Ser561) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using PLD1 (Phospho-Ser561) Antibody. The picture on the right is blocked with the phospho peptide.

Note

For research use only.