

## PC-PLD1 (Phospho Ser561) Rabbit pAb

CatalogNo: YP1136

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IHC, IF, ELISA

#### MW

- 124kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**IHC 1:100-1:300**

**IF 1:200-1:1000**

**ELISA 1:10000**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human PLD1 around the phosphorylation site of Ser561. AA range:527-576

## Specificity

Phospho-PC-PLD1 (S561) Polyclonal Antibody detects endogenous levels of PC-PLD1 protein only when phosphorylated at S561. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):KFSLY

## Target Information

**Gene name** PLD1

**Protein Name** Phospholipase D1

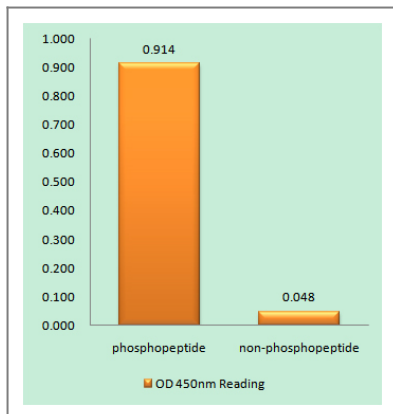
Organism	Gene ID	UniProt ID
Human	<a href="#">5337</a> ;	<a href="#">Q13393</a> ;
Mouse		<a href="#">Q9Z280</a> ;
Rat	<a href="#">25096</a> ;	<a href="#">P70496</a> ;

**Cellular Localization** Cytoplasm , perinuclear region . Endoplasmic reticulum membrane ; Lipid-anchor ; Cytoplasmic side . Golgi apparatus membrane ; Lipid-anchor ; Cytoplasmic side . Late endosome membrane ; Lipid-anchor ; Cytoplasmic side .

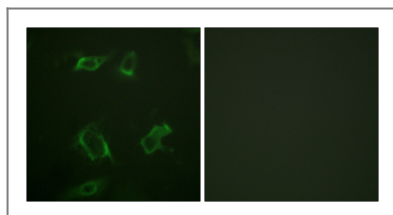
**Tissue specificity** Expressed abundantly in the pancreas and heart and at high levels in brain , placenta , spleen , uterus and small intestine.

**Function** Catalytic activity:A phosphatidylcholine + H<sub>2</sub>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 abundantly in the pancreas and heart and at high levels in brain , placenta , spleen , uterus and small intestine. ,

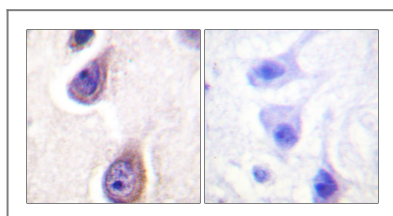
## Validation Data



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



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.

## Contact information

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Please scan the QR code to access additional product information:  
**PC-PLD1 (Phospho Ser561) Rabbit pAb**

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