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**Product Name: PC-PLD2 (phospho Tyr169) Rabbit Polyclonal Antibody****Catalog #: APRab05221**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phosphorylated
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	95kDa

**Antigen Information**

<b>Gene Name</b>	PLD2
<b>Alternative Names</b>	PLD2; Phospholipase D2; PLD 2; hPLD2; Choline phosphatase 2; PLD1C; Phosphatidylcholine-hydrolyzing phospholipase D2
<b>Gene ID</b>	5338.0
<b>SwissProt ID</b>	O14939
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PLD2 around the phosphorylation site of Tyr169. AA range:136-185

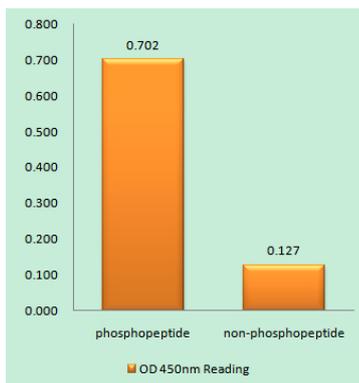
**Background**

The protein encoded by this gene catalyzes the hydrolysis of phosphatidylcholine to phosphatidic acid and choline. The activity of the encoded enzyme is enhanced by phosphatidylinositol 4,5-bisphosphate and ADP-ribosylation factor-1. This protein localizes to the peripheral membrane and may be involved in cytoskeletal organization, cell cycle control, transcriptional regulation, and/or regulated secretion. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011],catalytic activity:A phosphatidylcholine + H(2)O = choline + a phosphatidate,enzyme regulation:Stimulated by phosphatidylinositol 4,5-bisphosphate and activated by the ADP-ribosylation factor-1 (ARF-1),.function:May have a role in signal-induced cytoskeletal regulation and/or endocytosis,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 EGFR (By similarity). Interacts with PIP5K1A,.tissue specificity:Ubiquitous,.

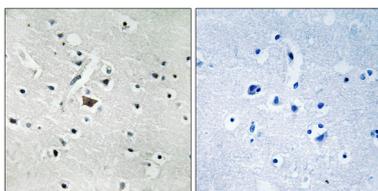
## Research Area

Glycerophospholipid metabolism;Ether lipid metabolism;Endocytosis;Fc gamma R-mediated phagocytosis;GnRH;

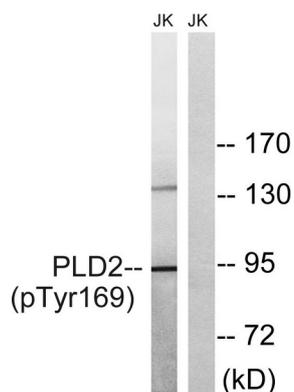
## Image Data



Enzyme-Linked Immunosorbent Assay ( Phospho-ELISA ) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using PLD2 (Phospho-Tyr169) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using PLD2 (P hospho-Tyr169) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with TNF 20ng/ml 30 ' , using PLD2 (Phospho-Tyr169) Antibody. The lane on the right is blocked with the phospho peptide.

