

Rabbit PC-PLD1 Polyclonal Antibody | anti-PC-PLD1 antibody

PC-PLD1 Polyclonal Antibody

CATALOG # AAA268023	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry
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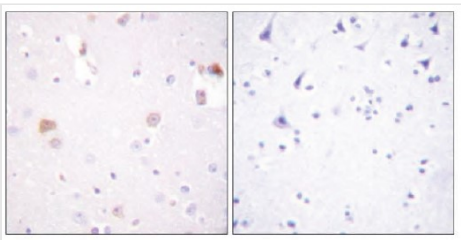
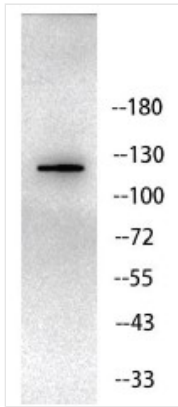
PRODUCT SYNONYMS

PC-PLD1; Polyclonal Antibody; PC-PLD1 Polyclonal Antibody; PLD1; Phospholipase D1; PLD 1; hPLD1; Choline phosphatase 1; Phosphatidylcholinehydrolyzing phospholipase D1; anti-PC-PLD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	PC-PLD1 Polyclonal Antibody detects endogenous levels of PC-PLD1 protein.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Positions	527-576
Sequence Length	1074
Applicable Applications for anti-PC-PLD1 antibody	ELISA, IHC (Immunohistochemistry)
Immunogen	The antiserum was produced against synthesized peptide derived from human PLD1. AA range:527-576
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	Golgi membrane,lysosomal membrane,endosome,endoplasmic reticulum membrane,Golgi apparatus,membrane,apical plasma membrane,endocytic vesicle,late endosome membrane,perinuclear region of cytoplasm
Expression	Aorta endothelial cell,Brain,Cervix carcinoma,Chondrocyte,Epithelium,Skeletal muscle,Testis
Preparation and Storage	-20°C/1 year

IMAGES



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

WB (Western Blot)
Western blot analysis of extracts of rat heart, using PLD1 at 1:1000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-PC-PLD1 antibody	Background: Phospholipase D1(PLD1) Homo sapiens 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],
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505873
NCBI GeneID	5337
NCBI Accession #	NP_002653.1
NCBI GenBank Nucleotide #	NM_002662.4
UniProt Accession #	Q13393
Molecular Weight	MolecularWeight(Da):124184
NCBI Official Full Name	phospholipase D1 isoform a
NCBI Official Synonym Full Names	phospholipase D1
NCBI Official Symbol	PLD1
NCBI Official Synonym Symbols	CVDD
NCBI Protein Information	phospholipase D1
UniProt Protein Name	Phospholipase D1
UniProt Gene Name	PLD1
UniProt Synonym Gene Names	PLD 1; hPLD1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.