

Immunotag™ PC-PLD1 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT3618
Product Description	Immunotag™ PC-PLD1 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PC-PLD1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	IHC-p,ELISA
Recommended Dilution	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from PC-PLD1, at AA range: 500-580
Specificity	PC-PLD1 Polyclonal Antibody detects endogenous levels of PC-PLD1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PLD1
Accession No.	Q13393 Q9Z280 P70496
Alternate Names	PLD1; Phospholipase D1; PLD 1; hPLD1; Choline phosphatase 1; Phosphatidylcholine-hydrolyzing phospholipase D1

Antibody Specification

Description	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],
Cell Pathway/ Category	Glycerophospholipid metabolism,Ether lipid metabolism,Endocytosis,Fc gamma R-mediated phagocytosis,GnRH,Pathways in cancer,Pancreatic cancer,
Protein Expression	Aorta endothelial cell,Brain,Cervix carcinoma,Chondrocyte,Epithelium,Skeletal muscle,Testis
Subcellular Localization	Golgi membrane,lysosomal membrane,endosome,endoplasmic reticulum membrane,Golgi apparatus,membrane,apical plasma membrane,endocytic vesicle,late endosome membrane,perinuclear region of cytoplasm,
Protein 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 abundantly in the pancreas and heart and at high levels in brain, placenta, spleen, uterus and small intestine.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.