

## PC-PLD3 Polyclonal Antibody

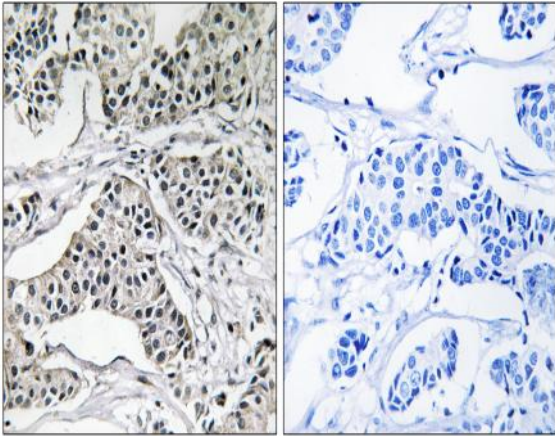
<b>Catalog No :</b>	YT3621
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	PC-PLD3
<b>Fields :</b>	>>Glycerophospholipid metabolism;>>Ether lipid metabolism;>>Metabolic pathways
<b>Gene Name :</b>	PLD3
<b>Protein Name :</b>	Phospholipase D3
<b>Human Gene Id :</b>	23646
<b>Human Swiss Prot No :</b>	Q8IV08
<b>Mouse Gene Id :</b>	18807
<b>Mouse Swiss Prot No :</b>	O35405
<b>Rat Gene Id :</b>	361527
<b>Rat Swiss Prot No :</b>	Q5FVH2
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human PLD3. AA range:326-375
<b>Specificity :</b>	PC-PLD3 Polyclonal Antibody detects endogenous levels of PC-PLD3 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

---

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	55kD
<b>Background :</b>	This gene encodes a member of the phospholipase D (PLD) family of enzymes that catalyze the hydrolysis of membrane phospholipids. The encoded protein is a single-pass type II membrane protein and contains two PLD phosphodiesterase domains. This protein influences processing of amyloid-beta precursor protein. Mutations in this gene are associated with Alzheimer disease risk. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Apr 2014],
<b>Function :</b>	catalytic activity:A phosphatidylcholine + H(2)O = choline + a phosphatidate.,PTM:Glycosylated.,similarity:Belongs to the phospholipase D family.,similarity:Contains 2 PLD phosphodiesterase domains.,tissue specificity:Widely expressed. Expresses at higher level in brain. Expresses at low level in corpus callosum, suggesting that it is highly expressed in neurons.,
<b>Subcellular Location :</b>	Endoplasmic reticulum membrane ; Single-pass type II membrane protein . Lysosome lumen . Early endosome membrane ; Single-pass type II membrane protein . Late endosome membrane ; Single-pass type II membrane protein . Golgi apparatus membrane ; Single-pass type II membrane protein . Endosome membrane ; Single-pass type II membrane protein . Localizes to ER-associated vesicles in differentiating myotubes (PubMed:22428023). The soluble form in lysosome arises by proteolytic processing of the membrane-bound form (PubMed:29386126). Colocalizes with APP in endosomes (PubMed:29368044). .
<b>Expression :</b>	Widely expressed. In the brain, high levels of expression are detected in the frontal, temporal and occipital cortices and hippocampus. Expressed at low level in corpus callosum.

---

## Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using PLD3 Antibody. The picture on the right is blocked with the synthesized peptide.