

## Product datasheet for **AP20265PU-N**

### Phospholipase D1 (PLD1) Rabbit Polyclonal Antibody

#### Product data:

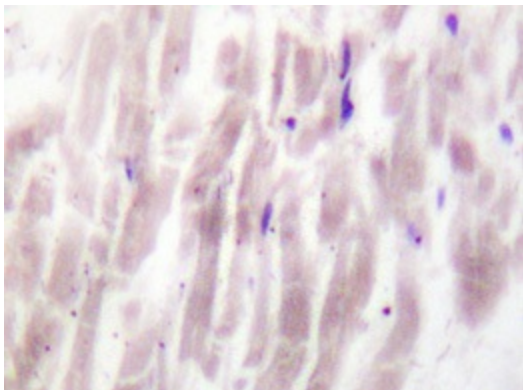
Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of PLD1 protein.
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phospholipase D1
Database Link:	<a href="#">Entrez Gene 18805 Mouse</a> <a href="#">Entrez Gene 25096 Rat</a> <a href="#">Entrez Gene 5337 Human Q13393</a>
Background:	Activation of phosphatidylcholine-specific phospholipase D (PC-PLD) catalyzes the hydrolysis of phosphatidylcholine (PC) to generate phosphatidic acid (PA). Insulin activates the PLD-dependent hydrolysis of PC in plasma membranes of adipocytes by a mechanism that may involve wortmannin-sensitive phosphatidylinositol 3-kinase. In addition to the transient activation by growth factors stimulation, PC-PLD is constitutively activated in some of the Src- and Ras-transformed cells. PC-PLD is one of the target enzymes of ischemia; its decrease may cause a perturbation of PC hydrolysis and/or disorders of intracellular signal transduction or choline metabolism for acetylcholine formation in the brain.
Synonyms:	PLD-1, Choline phosphatase 1



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**Protein Pathways:**

Endocytosis, Ether lipid metabolism, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, GnRH signaling pathway, Metabolic pathways, Pancreatic cancer, Pathways in cancer

**Product images:**

Immunohistochemistry analyzes of PLD1 antibody (AP20265PU-N) in paraffin-embedded human heart tissue.