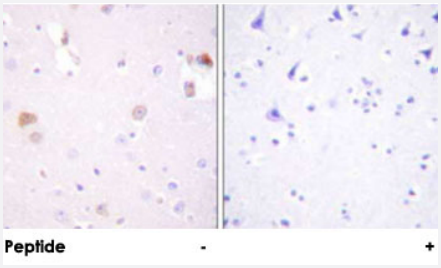
PLD1 polyclonal antibody

Catalog # PAB18260 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human brain tissue using PLD1 polyclonal antibody (Cat # PAB18260).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PLD1.
Immunogen	A synthetic peptide corresponding to human PLD1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to PLD1.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

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Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human brain tissue using PLD1 polyclonal antibody (Cat # PAB18260). Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PLD1

Entrez GeneID	5337
Protein Accession#	Q13393
Gene Name	PLD1
Gene Alias	-
Gene Description	phospholipase D1, phosphatidylcholine-specific
Omim ID	602382
Gene Ontology	Hyperlink
Gene Summary	Phosphatidylcholine (PC)-specific phospholipases D (PLDs; EC 3.1.4.4) catalyze the hydrolysis of PC to produce phosphatidic acid and choline. A range of agonists acting through G protein-cou pled receptors and receptor tyrosine kinases stimulate this hydrolysis. PC-specific PLD activity h as been implicated in numerous cellular pathways, including signal transduction, membrane traffic king, and the regulation of mitosis (Hammond et al., 1995 [PubMed 8530346]).[supplied by OMIM
Other Designations	choline phosphatase 1|phospholipase D1, phophatidylcholine-specific

Publication Reference

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- Phospholipase D1 production of phosphatidic acid at the plasma membrane promotes exocytosis of large dense-core granules at a late stage.

  Zeniou-Meyer M, Zabari N, Ashery U, Chasserot-Golaz S, Haeberle AM, Demais V, Bailly Y, Gottfried I, Nakanishi H, Neiman AM, Du G, Frohman MA, Bader MF, Vitale N.

  The Journal of Biological Chemistry 2007 Jul; 282(30):21746.

  Application: WB-Tr, Bovine, Rat, Bovine adrenal chromaffin cells, PC12 cells

- Phagocyte cell migration is mediated by phospholipases PLD1 and PLD2.

  Lehman N, Di Fulvio M, McCray N, Campos I, Tabatabaian F, Gomez-Cambronero J.

  Blood 2006 Nov; 108(10):3564.

- Independent functioning of cytosolic phospholipase A2 and phospholipase D1 in Trp-Lys-Tyr-Met-Val-D-Met-induced superoxide generation in human monocytes.

  Bae YS, Kim Y, Kim JH, Lee TG, Suh PG, Ryu SH.

  The Journal of Immunology 2000 Apr; 164(8):4089.

  Application: WB-Ce, Human, Monocytes

Pathway

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

Disease

- Cardiovascular Diseases

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- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Mental Disorders
- Tobacco Use Disorder

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