

Anti-PLD1 Picoband Antibody

Catalog # ABO12071

Product Information

Application	WB
Primary Accession	Q13393
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Phospholipase D1(PLD1) detection. Tested with WB in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5337
Other Names	Phospholipase D1, PLD 1, hPLD1, 3.1.4.4, Choline phosphatase 1, Phosphatidylcholine-hydrolyzing phospholipase D1, PLD1
Calculated MW	124184
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse
Subcellular Localization	Cytoplasm, perinuclear region . Endoplasmic reticulum membrane ; Lipid-anchor ; Cytoplasmic side . Golgi apparatus membrane ; Lipid-anchor ; Cytoplasmic side . Late endosome membrane ; Lipid- anchor ; Cytoplasmic side .
Tissue Specificity	Expressed abundantly in the pancreas and heart and at high levels in brain, placenta, spleen, uterus and small intestine. .
Source	Eukaryota
Protein Name	Phospholipase D1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human PLD1 recombinant protein (Position: M1-H330). Human PLD1 shares 91.8% and 90.9% amino acid (aa) sequence identity with mouse and rat PLD1, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.

Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the phospholipase D family.

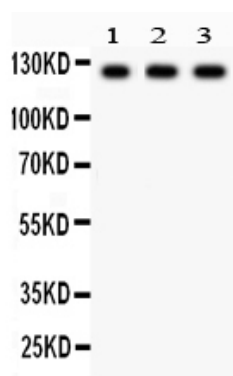
Protein Information

Name	PLD1 (HGNC:9067)
Function	Function as phospholipase selective for phosphatidylcholine (PubMed: 25936805 , PubMed: 8530346 , PubMed: 9582313). 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 (By similarity).
Cellular Location	Cytoplasm, perinuclear region {ECO:0000250 UniProtKB:Q9Z280}. Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q9Z280}; Lipid-anchor {ECO:0000250 UniProtKB:Q9Z280}; Cytoplasmic side {ECO:0000250 UniProtKB:Q9Z280}. Golgi apparatus membrane {ECO:0000250 UniProtKB:Q9Z280}; Lipid-anchor {ECO:0000250 UniProtKB:Q9Z280}; Cytoplasmic side {ECO:0000250 UniProtKB:Q9Z280}. Late endosome membrane {ECO:0000250 UniProtKB:Q9Z280}; Lipid-anchor {ECO:0000250 UniProtKB:Q9Z280}; Cytoplasmic side {ECO:0000250 UniProtKB:Q9Z280}
Tissue Location	Expressed abundantly in the pancreas and heart and at high levels in brain, placenta, spleen, uterus and small intestine

Background

By somatic cell hybrid analysis, PLD1 is mapped to 3q26.31. 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. And PLD1 disrupted association of gamma-secretase protein components, independent of PLD1catalytic activity. What's more, PLD1 regulates intracellular trafficking of beta-amyloid, distinct from its effect on gamma-secretase activity.

Images



Anti-PLD1 Picoband antibody, ABO12071, Western blottingAll lanes: Anti PLD1 (ABO12071) at 0.5ug/mlLane 1: Mouse Cardiac Muscle Tissue Lysate at 50ugLane 2: 22RV1 Whole Cell Lysate at 40ugLane 3: HELA Whole Cell Lysate at 40ugPredicted bind size: 124KDObserved bind size: 124KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.