

PLCD1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12956A

Specification

PLCD1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P51178
Other Accession	P10895 , NP_001124436.1 , NP_006216.2
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	85665
Antigen Region	134-163

PLCD1 Antibody (N-term) - Additional Information

Gene ID 5333

Other Names

1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase delta-1, Phosphoinositide phospholipase C-delta-1, Phospholipase C-III, PLC-III, Phospholipase C-delta-1, PLC-delta-1, PLCD1

Target/Specificity

This PLCD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 134-163 amino acids from the N-terminal region of human PLCD1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PLCD1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PLCD1 Antibody (N-term) - Protein Information

Name PLCD1 ([HGNC:9060](#))

Function The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes (PubMed:[9188725](#)). Essential for trophoblast and placental development (By similarity). Binds phosphatidylinositol 4,5-bisphosphate (PubMed:[7890667](#), PubMed:[9188725](#)).

Tissue Location

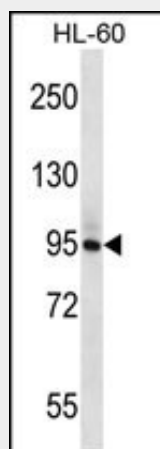
Strongly expressed in lung, liver and heart. Also expressed at least in pancreas, kidney, skeletal muscle, placenta and brain.

PLCD1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PLCD1 Antibody (N-term) - Images



PLCD1 Antibody (N-term) (Cat. #AP12956a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the PLCD1 antibody detected the PLCD1 protein (arrow).

PLCD1 Antibody (N-term) - Background

Phosphoinositide-specific phospholipase C (PLC) acts as a signal transducer that generates 2 second messengers, diacylglycerol and inositol 1,4,5-trisphosphate, by hydrolyzing inositol phospholipids. PLC comprises a diverse family of enzymes that differ in structure and tissue distribution (Berridge, 1993 [PubMed 8381210]).

PLCD1 Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Saus, E., et al. J Psychiatr Res 44(14):971-978(2010)

Guo, Y., et al. J. Biol. Chem. 285(32):24999-25008(2010)
Segat, L., et al. Vaccine 28(10):2201-2206(2010)
Godin, C.M., et al. Mol. Pharmacol. 77(3):388-395(2010)