

PLCD3 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14654a

Specification

PLCD3 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q8N3E9
Other Accession	Q8K2J0 , NP_588614.1
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	89258
Antigen Region	60-89

PLCD3 Antibody (N-term) - Additional Information

Gene ID 113026

Other Names

1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase delta-3, Phosphoinositide phospholipase C-delta-3, Phospholipase C-delta-3, PLC-delta-3, PLCD3, KIAA1964

Target/Specificity

This PLCD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 60-89 amino acids from the N-terminal region of human PLCD3.

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

PLCD3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PLCD3 Antibody (N-term) - Protein Information

Name PLCD3 ([HGNC:9061](#))

Synonyms KIAA1964

Function Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP2) to generate 2 second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). DAG mediates the activation of protein kinase C (PKC), while IP3 releases Ca(2+) from intracellular stores. Essential for trophoblast and placental development. May participate in cytokinesis by hydrolyzing PIP2 at the cleavage furrow (PubMed:[10336610](#)). Regulates neurite outgrowth through the inhibition of RhoA/Rho kinase signaling (By similarity).

Cellular Location

Membrane; Peripheral membrane protein. Cytoplasm. Cleavage furrow. Note=Localizes at the cleavage furrow during cytokinesis.

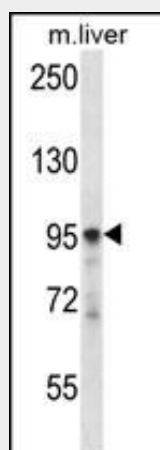
Tissue Location

Present in corneal epithelial cells (at protein level).

PLCD3 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](#)

PLCD3 Antibody (N-term) - Images

PLCD3 Antibody (N-term) (Cat. #AP14654a) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the PLCD3 antibody detected the PLCD3 protein (arrow).

PLCD3 Antibody (N-term) - Background

This gene encodes a member of the phospholipase C family, which catalyze the hydrolysis of phosphatidylinositol 4,5-bisphosphate to generate the second messengers diacylglycerol and inositol 1,4,5-trisphosphate (IP3). Diacylglycerol and IP3

mediate a variety of cellular responses to extracellular stimuli by inducing protein kinase C and increasing cytosolic Ca^{2+} concentrations. This enzyme localizes to the plasma membrane and requires calcium for activation. Its activity is inhibited by spermine, sphingosine, and several phospholipids. [provided by RefSeq].

PLCD3 Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Segat, L., et al. Vaccine 28(10):2201-2206(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Newton-Cheh, C., et al. Nat. Genet. 41(6):666-676(2009)
Rebecchi, M.J., et al. Adv. Enzyme Regul. 49(1):59-73(2009)