

PLCD3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP14654a

Specification

PLCD3 Antibody (N-term) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW Antigen Region WB,E <u>O8N3E9</u> <u>O8K2J0</u>, <u>NP_588614.1</u> Mouse Rabbit Polyclonal Rabbit IgG 89258 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:<u>10336610</u>). 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.

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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)