

PLCD3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14654a**Specification**

PLCD3 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8N3E9](#)**PLCD3 Antibody (N-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PLCD3 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PLCD3 Antibody (N-term) Blocking Peptide - Images

PLCD3 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)