

PLCD1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12956a**Specification**

PLCD1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P51178](#)**PLCD1 Antibody (N-term) Blocking peptide - 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

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.

PLCD1 Antibody (N-term) Blocking peptide - Protein InformationName 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:<[a href="http://www.uniprot.org/citations/9188725" target="_blank">9188725](http://www.uniprot.org/citations/9188725)>). Essential for trophoblast and placental development (By similarity). Binds phosphatidylinositol 4,5-bisphosphate (PubMed:<[a href="http://www.uniprot.org/citations/7890667" target="_blank">7890667](http://www.uniprot.org/citations/7890667)>, PubMed:<[a href="http://www.uniprot.org/citations/9188725" target="_blank">9188725](http://www.uniprot.org/citations/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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PLCD1 Antibody (N-term) Blocking peptide - Images**PLCD1 Antibody (N-term) Blocking peptide - 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) Blocking peptide - 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)