

PLCB1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9374b**Specification**

PLCB1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9NQ66](#)**PLCB1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 23236**Other Names**

1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase beta-1, PLC-154, Phosphoinositide phospholipase C-beta-1, Phospholipase C-I, PLC-I, Phospholipase C-beta-1, PLC-beta-1, PLCB1, KIAA0581

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.

PLCB1 Antibody (C-term) Blocking Peptide - Protein Information**Name** PLCB1 ([HGNC:15917](#))**Synonyms** KIAA0581**Function**

Catalyzes the hydrolysis of 1-phosphatidylinositol 4,5- bisphosphate into diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) and mediates intracellular signaling downstream of G protein-coupled receptors (PubMed:9188725). Regulates the function of the endothelial barrier.

Cellular Location

Nucleus membrane {ECO:0000250|UniProtKB:Q9Z1B3}. Cytoplasm {ECO:0000250|UniProtKB:P10687}. Note=Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes. {ECO:0000250|UniProtKB:Q9Z1B3}

PLCB1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PLCB1 Antibody (C-term) Blocking Peptide - Images

PLCB1 Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of many extracellular signals. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11.

PLCB1 Antibody (C-term) Blocking Peptide - References

Need, A.C., et al. Hum. Mol. Genet. 18(23):4650-4661(2009)Woodcock, E.A., et al. J. Mol. Cell. Cardiol. 47(5):676-683(2009)Zhang, Y., et al. J. Recept. Signal Transduct. Res. 29(1):52-62(2009)