PLCD3 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PLCD3, Blocking Peptide
Full Product Name	PLCD3 Antibody (N-term) Blocking Peptide
Product Gene Name	PLCD3 blocking peptide
Product Synonym Gene Name	KIAA1964
Product Synonym Names	1-phosphatidylinositol 4;5-bisphosphate phosphodiesterase delta-3; Phosphoinositide phospholipase C-delta-3; Phospholipase C-delta-3; PLC-delta-3; PLCD3; KIAA1964
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PLCD3 peptide (MBS9220981) is used for blocking the activity of PLCD3 antibody (MBS9201406)
Molecular Weight	89,258 Da
OMIM	608795
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).
Related Product Information for PLCD3 blocking peptide	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.
Other Notes	Small volumes of PLCD3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PLCD3 purchase	MBS9220981 is a blocking peptide targeting PLCD3. Also known as PLCD3 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLCD3. It may not necessarily be applicable to this product.

NCBI GI #	158706388
NCBI GeneID	113026
NCBI Accession #	Q8N3E9.3
UniProt Primary Accession #	Q8N3E9
UniProt Secondary Accession #	Q8TEC1; Q8TF37; Q96FL6
UniProt Related Accession #	Q8N3E9
NCBI Official Full Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3
NCBI Official Synonym Full Names	phospholipase C delta 3
NCBI Official Symbol	PLCD3

NCBI Official Synonym Symbols	PLC-delta-3
UniProt Protein Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3
UniProt Synonym Protein Names	Phosphoinositide phospholipase C-delta-3; Phospholipase C-delta-3; PLC-delta-3
Protein Family	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase
UniProt Gene Name	PLCD3
UniProt Synonym Gene Names	KIAA1964; PLC-delta-3
UniProt Entry Name	PLCD3_HUMAN
NCBI Protein Information	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3
NCBI Summary for PLCD3	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, Jul 2008]
UniProt Comments for PLCD3	PLCD3: 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. Protein type: EC 3.1.4.11; Phospholipase; Carbohydrate Metabolism - inositol phosphate Chromosomal Location of Human Ortholog: 17q21.31 Cellular Component: plasma membrane Molecular Function: phosphoinositide phospholipase C activity Biological Process: inositol phosphate metabolic process
Research Articles on PLCD3	**1.** PLCdelta3 regulates microvilli formation in enterocytes and the radial migration of neurons in the cerebral cortex of the developing brain. [review]
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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