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PPAP2C Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP2799a

Specification

PPAP2C Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O43688

PPAP2C Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8612

Other Names
Lipid phosphate phosphohydrolase 2, PAP2-gamma, PAP2-G, Phosphatidate phosphohydrolase type 2c, Phosphatidic acid phosphatase 2c, PAP-2c, PAP2c, PPAP2C, LPP2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2799a was selected from the N-term region of human PPAP2C. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PPAP2C Antibody (N-term) Blocking Peptide - Protein Information

Name PLPP2 (HGNC:9230)

Function
Magnesium-independent phospholipid phosphatase that catalyzes the dephosphorylation of a variety of glycerolipid and sphingolipid phosphate esters including phosphatidate/PA, lysophosphatidate/LPA, sphingosine 1-phosphate/S1P and ceramide 1-phosphate/C1P (PubMed:9705349, PubMed:9607309, PubMed:16467304). Has no apparent extracellular phosphatase activity and therefore most probably acts intracellularly (PubMed:16467304). Also acts on N-oleoyl ethanolamine phosphate/N-(9Z-octadecenoyl)-ethanolamine phosphate, a potential physiological compound (PubMed:9607309). Through dephosphorylation of these bioactive lipid mediators

produces new bioactive compounds and may regulate signal transduction in different cellular processes (Probable). Indirectly regulates, for instance, cell cycle G1/S phase transition through its phospholipid phosphatase activity (By similarity).

Cellular Location
Membrane; Multi-pass membrane protein Cell membrane; Multi-pass membrane protein Early endosome membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location
Found mainly in brain, pancreas and placenta.

PPAP2C Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PPAP2C Antibody (N-term) Blocking Peptide - Images

PPAP2C Antibody (N-term) Blocking Peptide - Background

PPAP2C is a member of the phosphatidic acid phosphatase (PAP) family. PAPs convert phosphatidic acid to diacylglycerol, and function in de novo synthesis of glycerolipids as well as in receptor-activated signal transduction mediated by phospholipase D. This protein is similar to phosphatidic acid phosphatase type 2A (PPAP2A) and type 2B (PPAP2B). All three proteins contain 6 transmembrane regions, and a consensus N-glycosylation site. This protein has been shown to possess membrane associated PAP activity.

PPAP2C Antibody (N-term) Blocking Peptide - References

Long,J.S., Biochem. J. 411 (2), 371-377 (2008)Morris,K.E., J. Biol. Chem. 281 (14), 9297-9306 (2006)Nanjundan,M., Am. J. Physiol. Lung Cell Mol. Physiol. 284 (1), L1-L23 (2003)Zhang,N., Genesis 27 (4), 137-140 (2000)