

PPAP2C Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2799b

Specification

PPAP2C Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	O43688
Other Accession	Q2HJ61
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	32574
Antigen Region	227-254

PPAP2C Antibody (C-term) - 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

This PPAP2C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 227-254 amino acids from the C-terminal region of human PPAP2C.

Dilution

WB~~1:1000
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PPAP2C Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PPAP2C Antibody (C-term) - 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:[16467304](#), PubMed:[9607309](#), PubMed:[9705349](#)). 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

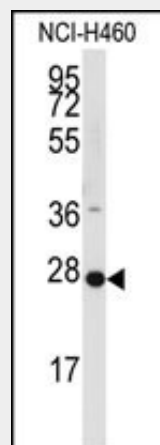
Found mainly in brain, pancreas and placenta.

PPAP2C Antibody (C-term) - Protocols

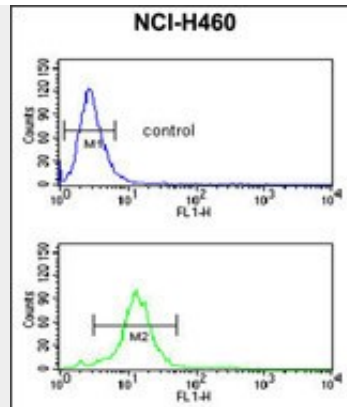
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPAP2C Antibody (C-term) - Images



Western blot analysis of anti-PPAP2C Antibody (C-term) (Cat.#AP2799b) in NCI-H460 cell line lysates (35ug/lane).PPAP2C(arrow) was detected using the purified Pab.



PPAP2C Antibody (C-term) (Cat. #AP2799b) flow cytometric analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PPAP2C Antibody (C-term) - 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 (C-term) - 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)