

PPAP2B Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21245a

Specification

PPAP2B Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O14495
Reactivity	Human, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG

PPAP2B Antibody (N-term) - Additional Information

Gene ID 8613

Other Names

Lipid phosphate phosphohydrolase 3, PAP2-beta, Phosphatidate phosphohydrolase type 2b, Phosphatidic acid phosphatase 2b, PAP-2b, PAP2b, Vascular endothelial growth factor and type I collagen-inducible protein, VCIP, PPAP2B, LPP3

Target/Specificity

This PPAP2B antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 3~37 amino acids from the N-terminal region of human PPAP2B.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

PPAP2B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PPAP2B Antibody (N-term) - Protein Information

Name PLPP3 ([HGNC:9229](#))

Synonyms LPP3, PPAP2B

Function Magnesium-independent phospholipid phosphatase of the plasma membrane that catalyzes the dephosphorylation of a variety of glycerolipid and sphingolipid phosphate esters including phosphatidate/PA, lysophosphatidate/LPA, diacylglycerol pyrophosphate/DGPP, sphingosine 1-phosphate/S1P and ceramide 1- phosphate/C1P (PubMed:[27694435](#), PubMed:[9607309](#), PubMed:[9705349](#)). Also acts on N-oleoyl ethanolamine phosphate/N-(9Z-octadecenoyl)- ethanolamine phosphate, a potential physiological compound (PubMed:[9607309](#)). Has both an extracellular and an intracellular phosphatase activity, allowing the hydrolysis and the cellular uptake of these bioactive lipid mediators from the milieu, regulating signal transduction in different cellular processes (PubMed:[23591818](#), PubMed:[27694435](#), PubMed:[9607309](#)). Through the dephosphorylation of extracellular sphingosine-1-phosphate and the regulation of its extra- and intracellular availability, plays a role in vascular homeostasis, regulating endothelial cell migration, adhesion, survival, proliferation and the production of pro-inflammatory cytokines (PubMed:[27694435](#)). By maintaining the appropriate levels of this lipid in the cerebellum, also ensure its proper development and function (By similarity). Through its intracellular lipid phosphatase activity may act in early compartments of the secretory pathway, regulating the formation of Golgi to endoplasmic reticulum retrograde transport carriers (PubMed:[23591818](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P97544}. Basolateral cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P97544}. Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P97544}. Endoplasmic reticulum-Golgi intermediate compartment membrane; Multi- pass membrane protein {ECO:0000250|UniProtKB:P97544}. Golgi apparatus membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P97544}. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P97544}. Membrane raft; Multi-pass membrane protein {ECO:0000250|UniProtKB:P97544}. Note=Cycles between the endoplasmic reticulum and the Golgi.

Tissue Location

Ubiquitously expressed (PubMed:12660161, PubMed:9305923). Highly expressed in heart and placenta (PubMed:9305923).

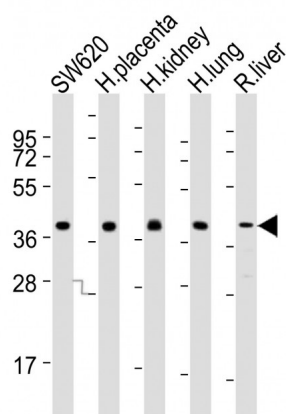
PPAP2B Antibody (N-term) - Protocols

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](#)

PPAP2B Antibody (N-term) - Images





All lanes : Anti-PPAP2B Antibody (N-term) at 1:2000 dilution Lane 1: SW620 whole cell lysates Lane 2: human placenta lysates Lane 3: human kidney lysates Lane 4: human lung lysates Lane 5: rat liver lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 35 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

PPAP2B Antibody (N-term) - Background

Catalyzes the conversion of phosphatidic acid (PA) to diacylglycerol (DG). In addition it hydrolyzes lysophosphatidic acid (LPA), ceramide-1-phosphate (C-1-P) and sphingosine-1-phosphate (S-1-P). The relative catalytic efficiency is LPA = PA > C-1-P > S-1-P. May be involved in cell adhesion and in cell-cell interactions.

PPAP2B Antibody (N-term) - References

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Roberts R.,et al.J. Biol. Chem. 273:22059-22067(1998).
Humtsoe J.O.,et al.EMBO J. 22:1539-1554(2003).
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Yu W.,et al.Genome Res. 7:353-358(1997).