

PPAPDC2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17641A

Specification

PPAPDC2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q8IY26
Other Accession	NP_982278.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	32194
Antigen Region	70-96

PPAPDC2 Antibody (N-term) - Additional Information

Gene ID 403313

Other Names

Presqualene diphosphate phosphatase, 313-, Phosphatidic acid phosphatase type 2 domain-containing protein 2, PPAP2 domain-containing protein 2, PPAPDC2

Target/Specificity

This PPAPDC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 70-96 amino acids from the N-terminal region of human PPAPDC2.

Dilution

WB~~1:1000

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

PPAPDC2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PPAPDC2 Antibody (N-term) - Protein Information

Name PLPP6 ([HGNC:23682](#))

Function Magnesium-independent polyisoprenoid diphosphatase that catalyzes the sequential

dephosphorylation of presqualene, farnesyl, geranyl and geranylgeranyl diphosphates (PubMed:[16464866](#), PubMed:[19220020](#), PubMed:[20110354](#)). Functions in the innate immune response through the dephosphorylation of presqualene diphosphate which acts as a potent inhibitor of the signaling pathways contributing to polymorphonuclear neutrophils activation (PubMed:[16464866](#), PubMed:[23568778](#)). May regulate the biosynthesis of cholesterol and related sterols by dephosphorylating presqualene and farnesyl diphosphate, two key intermediates in this biosynthetic pathway (PubMed:[20110354](#)). May also play a role in protein prenylation by acting on farnesyl diphosphate and its derivative geranylgeranyl diphosphate, two precursors for the addition of isoprenoid anchors to membrane proteins (PubMed:[20110354](#)). Has a lower activity towards phosphatidic acid (PA), but through phosphatidic acid dephosphorylation may participate in the biosynthesis of phospholipids and triacylglycerols (PubMed:[18930839](#)). May also act on ceramide-1-P, lysophosphatidic acid (LPA) and sphing-4-enine 1-phosphate/sphingosine-1-phosphate (PubMed:[18930839](#), PubMed:[20110354](#)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Nucleus envelope. Nucleus inner membrane

Tissue Location

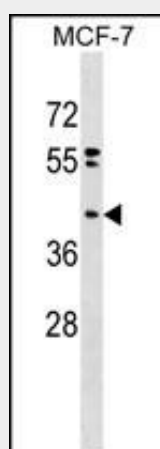
Widely expressed. Expressed in most organs, in particular gastrointestinal organs, spleen, placenta, kidney, thymus and brain.

PPAPDC2 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](#)

PPAPDC2 Antibody (N-term) - Images



PPAPDC2 Antibody (N-term) (Cat. #AP17641a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the PPAPDC2 antibody detected the PPAPDC2 protein (arrow).

PPAPDC2 Antibody (N-term) - Background

Phosphatase that dephosphorylates presqualene diphosphate (PSDP) into presqualene monophosphate (PSMP), suggesting that it may be indirectly involved in innate immunity. PSDP is a bioactive lipid that rapidly remodels to presqualene monophosphate PSMP upon cell activation. Displays diphosphate phosphatase activity with a substrate preference for PSDP > FDP > phosphatidic acid.

PPAPDC2 Antibody (N-term) - References

Miriyala, S., et al. J. Biol. Chem. 285(18):13918-13929(2010)
Carlo, T., et al. Biochemistry 48(13):2997-3004(2009)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
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