

**PPAPDC1B Antibody**  
Catalog # ASC11027**Specification****PPAPDC1B Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q8NEB5</a>
Other Accession	<a href="#">NP_001096029</a> , <a href="#">156523237</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	PPAPDC1B antibody can be used for detection of PPAPDC1B by Western blot at 1 - 2 µg/mL.

**PPAPDC1B Antibody - Additional Information**

Gene ID	84513
Target/Specificity	PPAPDC1B;

**Reconstitution & Storage**

PPAPDC1B antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

PPAPDC1B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**PPAPDC1B Antibody - Protein Information**

Name PLPP5 ([HGNC:25026](#))

**Function**

Magnesium-independent phospholipid phosphatase with broad substrate specificity (PubMed: [17590538](http://www.uniprot.org/citations/17590538)). Preferentially catalyzes the conversion of diacylglycerol pyrophosphate into phosphatidate but can also act on phosphatidate and lysophosphatidate (PubMed: [17590538](http://www.uniprot.org/citations/17590538)). Phospholipid phosphatases are involved in both the synthesis of lipids and the generation or degradation of lipid-signaling molecules (PubMed: [17590538](http://www.uniprot.org/citations/17590538)).

**Cellular Location**

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q3UMZ3}

## Tissue Location

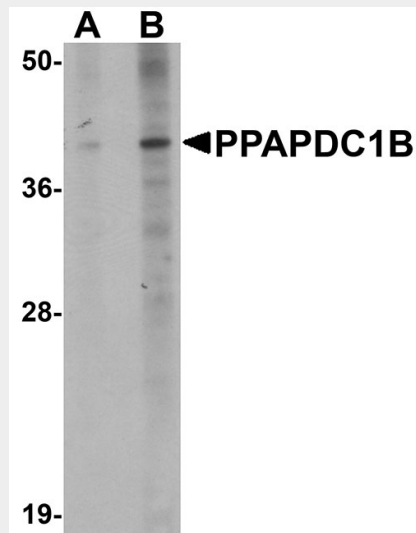
Ubiquitous..

## PPAPDC1B Antibody - 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](#)

## PPAPDC1B Antibody - Images



Western blot analysis of PPAPDC1B in EL4 cell lysate with PPAPDC1B antibody at (A) 1 and (B) 2  $\mu\text{g}/\text{mL}$ .

## PPAPDC1B Antibody - Background

PPAPDC1B Antibody: Phosphatidate phosphatase (PAP) plays important role in lipid-signaling metabolism in eukaryotic cells. Two distinct types of PAP (PAP1 and PAP2) activity have been distinguished by their subcellular localization and differential sensitivity to N-ethylmaleimide (NEM) and  $\text{Mg}^{2+}$ . A yeast diacylglycerol pyrophosphate (DGPP) phosphatase (DPP1) and mammalian DGPP phosphatase (PAP2) have been identified as  $\text{Mg}^{2+}$ -independent and NEM-insensitive membrane-associated. PPAPDC1A (also known as DPPL2) and PPAPDC1B (DPPL1) form a novel type of  $\text{Mg}^{2+}$ -independent and NEM-sensitive mammalian phosphatidate phosphatase showing broad substrate specificity. Knockdown experiments indicated that this protein is involved with multiple cell signaling pathways, including the JAK-Stat3, MAP kinase, and PKC pathways. PPAPDC1B may also potentiate the estrogen receptor pathway by down-regulating DUSP22.

## PPAPDC1B Antibody - References

Takeuchi M, Harigai M, Momohara S, et al. Cloning and characterization of DPPL1 and DPPL2,

representatives of a novel type of mammalian phosphatidate phosphatase. *Gene* 2007; 399:174-80.  
Bernard-Pierrot I, Gruel N, Stransky N, et al. Characterization of the recurrent 8p11-12 amplicon identifies PPAPDC1B, a phosphatase protein, as a new therapeutic target in breast cancer. *Cancer Res.* 2008; 68:7165-75.