10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PPAPDC1B Antibody
Catalog # ASC11027

Specification

PPAPDC1B Antibody - Product Information

Application	**WB**
Primary Accession	Q8NEB5
Other Accession	NP_001096029, 156523237
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℃ for three months and -20℃, 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). Preferentially catalyzes the conversion of diacylglycerol pyrophosphate into phosphatidate but can also act on phosphatidate and lysophosphatidate (PubMed:17590538). Phospholipid phosphatases are involved in both the synthesis of lipids and the generation or degradation of lipid-signaling molecules (PubMed:17590538).

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

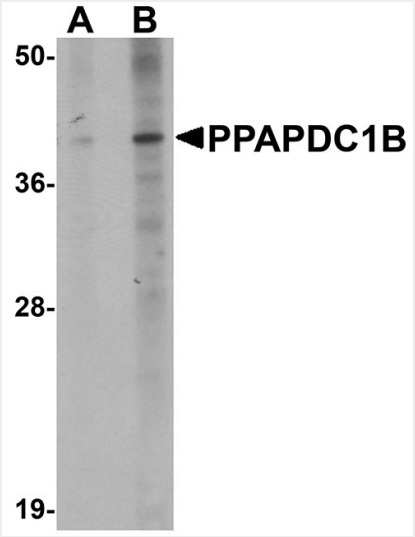
Tissue Location
Ubiquitous..

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 Cytomety
- Cell Culture

PPAPDC1B Antibody - Images



Western blot analysis of PPAPDC1B in EL4 cell lysate with PPAPDC1B antibody at (A) 1 and (B) 2 µg/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 Mg2+. A yeast diacylglycerol pyrophosphate (DGPP) phosphatase (DPP1) and mammalian DGPP phosphatase (PAP2) have been identified as Mg2+-independent and NEM-insensitive membrane-associated. PPAPDC1A (also known as DPPL2) and PPAPDC1B (DPPL1) form a novel type of Mg2+-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. Gene2007; 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.