PPAP2B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPAP2B, Polyclonal Antibody
Full Product Name	PPAP2B Polyclonal Antibody
Product Gene Name	anti-PPAP2B antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	35kDa
OMIM	607125
3D Structure	ModBase 3D Structure for O14495
Immunogen	A synthetic peptide of human PPAP2B (NP_003704.3).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PPAP2B antibody	Western Blot (WB)
Application Notes for anti-PPAP2B antibody	WB: 1:500-1:2000
Related Product Information for anti-PPAP2B antibody	The protein encoded by this gene 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 a membrane glycoprotein localized at the cell plasma membrane. It has been shown to actively hydrolyze extracellular lysophosphatidic acid and short-chain phosphatidic acid. The expression of this gene is found to be enhanced by epidermal growth factor in Hela cells.
Other Notes	Small volumes of anti-PPAP2B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PPAP2B purchase	MBS8570422 is an antibody targeting PPAP2B. Also known as PPAP2B Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPAP2B. It may not necessarily be applicable to this product.

NCBI GI #	29171740
NCBI GeneID	8613
NCBI Accession #	NP_003704.3
UniProt Primary Accession #	O14495

UniProt Related Accession #	O14495
GenBank Nucleotide #	NP_003704.3
NCBI Official Full Name	phospholipid phosphatase 3
NCBI Official Synonym Full Names	phospholipid phosphatase 3
NCBI Official Symbol	PLPP3
NCBI Official Synonym Symbols	LPP3; VCIP; Dri42; PAP2B; PPAP2B
UniProt Protein Name	Lipid phosphate phosphohydrolase 3
UniProt Synonym Protein Names	PAP2-beta; Phosphatidate phosphohydrolase type 2b; Phosphatidic acid phosphatase 2b; PAP-2b; PAP2b; Vascular endothelial growth factor and type I collagen-inducible protein; VCIP
UniProt Gene Name	PPAP2B
UniProt Synonym Gene Names	LPP3; PAP-2b; PAP2b; VCIP
UniProt Entry Name	LPP3_HUMAN
NCBI Protein Information	phospholipid phosphatase 3
UniProt Comments for PPAP2B	PPAP2B: 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. Belongs to the PA-phosphatase related phosphoesterase family. Protein type: Membrane protein, integral; Lipid Metabolism - glycerolipid; Lipid Metabolism - ether lipid; Lipid Metabolism - sphingolipid; Lipid Metabolism - glycerophospholipid; Membrane protein, multi-pass; Motility/polarity/chemotaxis; EC 3.1.3.4; Phosphatase, lipid Chromosomal Location of Human Ortholog: 1p32.2 Cellular Component: Golgi apparatus; adherens junction; membrane; plasma membrane; integral to membrane Molecular Function: integrin binding; protein binding; phosphatidate phosphatase activity; lipid phosphatase activity; phosphoprotein phosphatase activity; sphingosine-1-phosphate phosphatase activity Biological Process: blood vessel development; sphingolipid metabolic process; sphingolipid biosynthetic process; protein stabilization; regulation of Wnt receptor signaling pathway; gastrulation with mouth forming second; Bergmann glial cell differentiation; positive regulation of peptidyl-tyrosine phosphorylation; dephosphorylation; negative regulation of protein amino acid phosphorylation; phospholipid metabolic process; germ cell migration; homotypic cell-cell adhesion; positive regulation of transcription factor activity; lipid metabolic process
Research Articles on PPAP2B	**1.** ENPP2 was in silico discovered to be genetically altered in some patients with lung cancer, whereas increased autotaxin (ATX) staining and activity were detected in patients and mouse models, accompanied by a downregulation of PLPP3 expression. Most importantly, genetic deletion of Enpp2 or Lpar1 in mice resulted in disease attenuation, thus confirming a pro-carcinogenic role of ATX/LPA in the lung.
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