PPAP2A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPAP2A, Polyclonal Antibody
Full Product Name	PPAP2A Conjugated Antibody
Product Gene Name	anti-PPAP2A antibody
Product Synonym Names	LPP1; PAP2; LLP1a; PAP-2a; PAP2a2; PAPalpha1; PAP2alpha2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total PPAP2A protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	32kDa
OMIM	607124
3D Structure	ModBase 3D Structure for O14494
Immunogen	Synthetic peptide corresponding to a region derived from internal residues of human phosphatidic acid phosphatase type 2A
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-PPAP2A antibody	Most Applications
Application Notes for anti-PPAP2A antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-PPAP2A 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 an integral membrane glycoprotein, and has been shown to be a surface enzyme that plays an active role in the hydrolysis and uptake of lipids from extracellular space. The expression of this gene is found to be regulated by androgen in a prostatic adenocarcinoma cell line. At least two alternatively spliced transcript variants encoding distinct isoforMouse have been described.
Other Notes	Small volumes of anti-PPAP2A 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 PPAP2A purchase	MBS9447455 is an antibody targeting PPAP2A. Also known as PPAP2A Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPAP2A. It may not necessarily be applicable to this product.

NCBI GI #	29171736
NCBI GeneID	8611
NCBI Accession #	NP_003702
UniProt Primary Accession #	O14494
UniProt Related Accession #	O14494
GenBank Nucleotide #	NM_003711
NCBI Official Full Name	phospholipid phosphatase 1 isoform 1
NCBI Official Synonym Full Names	phospholipid phosphatase 1
NCBI Official Symbol	PLPP1
NCBI Official Synonym Symbols	LPP1; PAP2; LLP1a; PAP-2a; PPAP2A
UniProt Protein Name	Lipid phosphate phosphohydrolase 1
UniProt Synonym Protein Names	PAP2-alpha; Phosphatidate phosphohydrolase type 2a; Phosphatidic acid phosphatase 2a; PAP-2a; PAP2a
UniProt Gene Name	PPAP2A
UniProt Synonym Gene Names	LPP1; PAP-2a; PAP2a
UniProt Entry Name	LPP1_HUMAN
NCBI Protein Information	phospholipid phosphatase 1
NCBI Summary for PPAP2A	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 synthesis of glycerolipids and in phospholipase D-mediated signal transduction. This enzyme is an integral membrane glycoprotein that plays a role in the hydrolysis and uptake of lipids from extracellular space. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, May 2013]

UniProt Comments for PPAP2A	PPAP2A: Broad-specificity phosphohydrolase that dephosphorylates exogenous bioactive glycerolipids and sphingolipids. Catalyzes the conversion of phosphatidic acid (PA) to diacylglycerol (DG). Pivotal regulator of lysophosphatidic acid (LPA) signaling in the cardiovascular system. Major enzyme responsible of dephosphorylating LPA in platelets, which terminates signaling actions of LPA. May control circulating, and possibly also regulate localized, LPA levels resulting from platelet activation. It has little activity towards ceramide-1-phosphate (C-1-P) and sphingosine-1-phosphate (S-1-P). The relative catalytic efficiency is LPA > PA > S-1-P > C-1-P. It's down-regulation may contribute to the development of colon adenocarcinoma. Belongs to the PA-phosphatase related phosphoesterase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Membrane protein, integral; Lipid Metabolism - sphingolipid; Lipid Metabolism - glycerophospholipid; Lipid Metabolism - ether lipid; Membrane protein, multi-pass; Lipid Metabolism - glycerolipid; Phosphatase (non-protein); EC 3.1.3.4 Chromosomal Location of Human Ortholog: 5q11 Cellular Component: membrane; integral to plasma membrane; plasma membrane Molecular Function: phosphatidate phosphatase activity Biological Process: steroid hormone receptor signaling pathway; negative regulation of cell proliferation; regulation of lipid metabolic process; sphingolipid metabolic process; sphingolipid biosynthetic process; germ cell migration; protein kinase C activation; androgen receptor signaling pathway; lipid metabolic process; protein amino acid dephosphorylation; phospholipid dephosphorylation
Research Articles on PPAP2A	**1.** the first of the two transmembrane regions in human SAC1 (TM1) functions in Golgi localization
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