# PPAP2A Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PPAP2A, Polyclonal Antibody |
| **Full Product Name** | PPAP2A (C-Term) Rabbit pAb |
| **Product Gene Name** | anti-PPAP2A antibody |
| **Product Synonym Names** | Lipid phosphate phosphohydrolase 1; PAP2-alpha; Phosphatidate phosphohydrolase type 2a; Phosphatidic acid phosphatase 2a; PAP-2a; PAP2a; PPAP2A; LPP1 |
| **Clonality** | Polyclonal |
| **Isotype** | Ig |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | In PBS supplemented with 0.09% (W/V) Sodium Azide. |
| **Purity/Purification** | Affinity Purified |
| **OMIM** | 607124 |
| **3D Structure** | ModBase 3D Structure for O14494 |
| **Immunogen** | This PPAP2A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 247-281 amino acids from the C-terminal region of human PPAP2A. |
| **Cellular Localization** | Cell Membrane, Membrane |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-PPAP2A antibody** | Western Blot (WB) |
| **Application Notes for anti-PPAP2A antibody** | WB: 1:2000 |
| **Related Product Information for anti-PPAP2A antibody** | MBS8557215 is an antibody targeting PPAP2A. Also known as PPAP2A (C-Term) Rabbit pAb. Reactive in Human. Host: Rabbit. |
| **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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 45477007 |
| **NCBI GeneID** | 8611 |
| **NCBI Accession #** | O14494.1 |
| **UniProt Primary Accession #** | O14494 |
| **UniProt Related Accession #** | O14494 |
| **NCBI Official Full Name** | Phospholipid phosphatase 1 |

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| **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.<br><br>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<br><br>Chromosomal Location of Human Ortholog: 5q11<br><br>Cellular Component: membrane; integral to plasma membrane; plasma membrane<br><br>Molecular Function: phosphatidate phosphatase activity<br><br>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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