

PAP2c Rabbit pAb

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Catalog # AP54207

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O43688
Predicted	Rat, Pig, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32574
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PAP2c
Epitope Specificity	81-276/288
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 similar to phosphatidic acid phosphatase type 2A (PPAP2A) and type 2B (PPAP2B). All three proteins contain 6 transmembrane regions, and a consensus N-glycosylation site. This protein has been shown to possess membrane associated PAP activity. Three alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	8612
Other Names	Phospholipid phosphatase 2, 3.1.3.-, 3.1.3.4, Lipid phosphate phosphohydrolase 2, PAP2-gamma, PAP2-G, Phosphatidate phosphohydrolase type 2c, Phosphatidic acid phosphatase 2c, PAP-2c, PAP2c, PLPP2 (HGNC:9230)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PLPP2 (HGNC:9230)
Function	Magnesium-independent phospholipid phosphatase that catalyzes the dephosphorylation of a variety of glycerolipid and sphingolipid phosphate esters including phosphatidate/PA, lysophosphatidate/LPA, sphingosine 1-phosphate/S1P and ceramide 1-phosphate/C1P (PubMed: 16467304 , PubMed: 9607309 , PubMed: 9705349). Has no apparent extracellular phosphatase activity and therefore most probably acts intracellularly (PubMed: 16467304). Also acts on N-oleoyl ethanolamine phosphate/N-(9Z-octadecenoyl)-ethanolamine phosphate, a potential physiological compound (PubMed: 9607309). Through dephosphorylation of these bioactive lipid mediators produces new bioactive compounds and may regulate signal transduction in different cellular processes (Probable). Indirectly regulates, for instance, cell cycle G1/S phase transition through its phospholipid phosphatase activity (By similarity).
Cellular Location	Membrane; Multi-pass membrane protein Cell membrane; Multi-pass membrane protein Early endosome membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Found mainly in brain, pancreas and placenta.

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.