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[Marker Primary Antibody]

Rabbit Anti-PPAP2A/AF647 Conjugated antibody

Catalog Number: SL5423R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-PPAP2A/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human PPAP2A
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=3μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Cow,Horse,Rabbit,Sheep)
Background:	background: PPAP2A 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. **Function:** 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-

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	regulation may contribute to the development of colon adenocarcinoma. **Subunit:** Homodimer. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Ubiquitously expressed with highest expression found in prostate. Isoform 1 is predominant in kidney, lung, placenta and liver. Isoform 2 is predominant in heart and pancreas. Found to be down-regulated in colon adenocarcinomas. **Post-translational modifications:** N-glycosylated. Contains high-mannose oligosaccharides. **Similarity:** Belongs to the PA-phosphatase related phosphoesterase family. **Database links:** **Entrez Gene:** 8611 Human Omim: 607124 Human **SwissProt:** O14494 Human **Unigene:** 696231 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.