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PLCB1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9374b

Product Information

Application	WB, FC, E
Primary Accession	Q9NQ66
Other Accession	Q9Z1B3, P10894
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17391
Calculated MW	138567
Antigen Region	1148-1176

Additional Information

Gene ID	23236
Other Names	1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase beta-1, PLC-154, Phosphoinositide phospholipase C-beta-1, Phospholipase C-I, PLC-I, Phospholipase C-beta-1, PLC-beta-1, PLCB1, KIAA0581
Target/Specificity	This PLCB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1148-1176 amino acids from the C-terminal region of human PLCB1.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PLCB1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PLCB1 (HGNC:15917)
Synonyms	KIAA0581

Function	Catalyzes the hydrolysis of 1-phosphatidylinositol 4,5- bisphosphate into diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) and mediates intracellular signaling downstream of G protein- coupled receptors (PubMed:9188725). Regulates the function of the endothelial barrier.
Cellular Location	Nucleus membrane {ECO:0000250|UniProtKB:Q9Z1B3}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9Z1B3}. Cytoplasm {ECO:0000250|UniProtKB:P10687}. Note=Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes. {ECO:0000250|UniProtKB:Q9Z1B3}

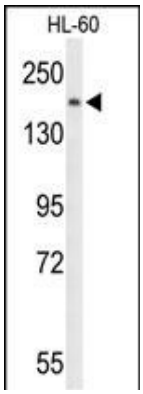
Background

The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of many extracellular signals. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11.

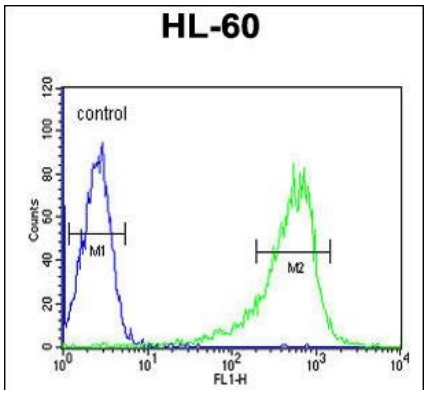
References

Need, A.C., et al. Hum. Mol. Genet. 18(23):4650-4661(2009)
Woodcock, E.A., et al. J. Mol. Cell. Cardiol. 47(5):676-683(2009)
Zhang, Y., et al. J. Recept. Signal Transduct. Res. 29(1):52-62(2009)

Images



Western blot analysis of PLCB1 Antibody (C-term) (Cat. #AP9374b) in HL-60 cell line lysates (35ug/lane). PLCB1 (arrow) was detected using the purified Pab.



PLCB1 Antibody (C-term) (Cat. #AP9374b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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