

PLCB1 Polyclonal Antibody

Catalog No :	YN1787
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	PLCB1
Fields :	>>Inositol phosphate metabolism;>>Metabolic pathways;>>Rap1 signaling pathway;>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>Chemokine signaling pathway;>>Phosphatidylinositol signaling system;>>Sphingolipid signaling pathway;>>Phospholipase D signaling pathway;>>Adrenergic signaling in cardiomyocytes;>>Vascular smooth muscle contraction;>>Wnt signaling pathway;>>Apelin signaling pathway;>>Gap junction;>>Platelet activation;>>Neutrophil extracellular trap formation;>>NOD-like receptor signaling pathway;>>Circadian entrainment;>>Long-term potentiation;>>Retrograde endocannabinoid signaling;>>Glutamatergic synapse;>>Cholinergic synapse;>>Serotonergic synapse;>>Dopaminergic synapse;>>Long-term depression;>>Taste transduction;>>Inflammatory mediator regulation of TRP channels;>>Insulin secretion;>>GnRH signaling pathway;>>Estrogen signaling pathway;>>Melanogenesis;>>Thyroid hormone synthesis;>>Thyroid hormone signaling pathway;>>Oxytocin signaling pathway;>>Glucagon signaling p
Gene Name :	PLCB1 KIAA0581
Protein Name :	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1 (EC 3.1.4.11) (PLC-154) (Phosphoinositide phospholipase C-beta-1) (Phospholipase C-I) (PLC-I) (Phospholipase C-beta-1) (PLC-beta-1)
Human Gene Id :	23236
Human Swiss Prot No :	Q9NQ66
Mouse Swiss Prot No :	Q9Z1B3
Rat Swiss Prot No :	P10687
Immunogen :	Synthesized peptide derived from part region of human protein

Specificity :	PLCB1 Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	133kD
Cell Pathway :	Inositol phosphate metabolism;Calcium;Chemokine;Phosphatidylinositol signaling system;Vascular smooth muscle contraction;WNT;WNT-T CELLGap junction;Long-term potentiation;Long-term depression;GnRH;Mel
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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1D-myo-inositol 1,4,5-trisphosphate + diacylglycerol.,cofactor:Calcium.,function:The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes.,miscellaneous:The receptor-mediated activation of PLC-beta-1 is mediated by two G-protein alpha subunits, alpha-Q and alpha-11.,similarity:Contains 1 C2 domain.,similarity:Contains 1 PI-PLC X-box domain.,similarity:Contains 1 PI-PLC Y-box domain.,
Subcellular Location :	Nucleus membrane . Cytoplasm . Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes. .
Expression :	Brain,Epithelium,Placenta,Testis,

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