Best Tools for immunology Research

PLCB4 Polyclonal Antibody

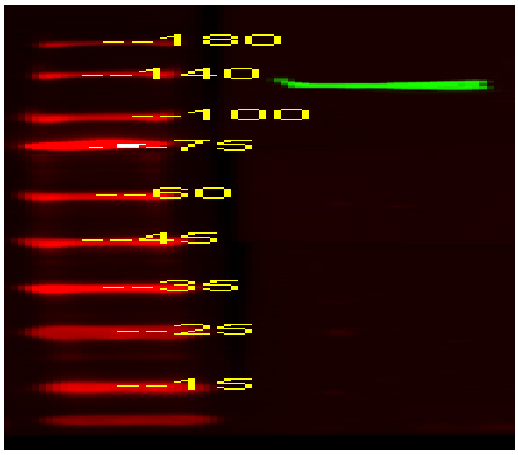
Catalog No :	YN1788
Reactivity :	Human;Rat
Applications :	WB;ELISA
Target :	PLCB4
Fields :	>>Inositol phosphate metabolism;>>Metabolic pathways;>>Rap1 signaling pathway;>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>Chemokine signaling pathway;>>Phosphatidylinositol signaling system;>>Sphingolipid 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 :	PLCB4
Protein Name :	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-4 (EC 3.1.4.11) (Phosphoinositide phospholipase C-beta-4) (Phospholipase C-beta-4) (PLC-beta-4)
Human Gene Id :	5332
Human Swiss Prot No :	Q15147
Rat Swiss Prot No :	Q9QW07
Immunogen :	Synthesized peptide derived from part region of human protein
Specificity :	PLCB4 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 :	129kD
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 in the retina. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2010],
Function :	alternative products:Additional isoforms seem to exist,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. This form has a role in retina signal transduction.,similarity:Contains 1 C2 domain.,similarity:Contains 1 PI-PLC X-box domain.,similarity:Contains 1 PI-PLC Y-box domain.,tissue specificity:Preferentially expressed in the retina.,
Subcellular Location :	intracellular,nucleus,smooth endoplasmic reticulum,cytosol,postsynaptic density,dendrite,
Expression :	Preferentially expressed in the retina.
Sort :	20943
No4 :	1

Host : Rabbit

Modifications : Unmodified

Products Images



Western Blot analysis of HEK293 lysis, using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000