



PLCB4 Polyclonal Antibody

Catalog No	YP-Ab-06655
Isotype	IgG
Reactivity	Human;Rat
Applications	WB;ELISA
Gene Name	PLCB4
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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; PLCB4;5-bisphosphate phosphodiesterase beta-4 (EC 3.1.4.11) (Phosphoinositide phospholipase C-beta-4) (Phospholipase C-beta-4) (PLC-beta-4)
Observed Band	129kD
Calculated Molecular Weight	129kD
Cell Pathway	intracellular,nucleus,smooth endoplasmic reticulum,cytosol,postsynaptic density, dendrite,
Tissue Specificity	Preferentially expressed in the retina.
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.,

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],

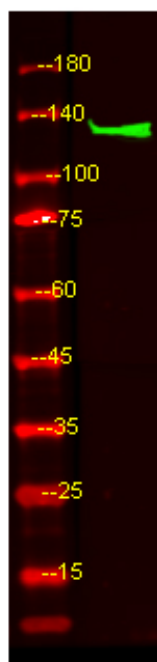
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



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