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Phospholipase C beta 1 Rabbit pAb

Catalog # AP99769

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9NQ66
Other Accession	Q9NQ66
Reactivity	Rat, Human
Predicted	Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	138567
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Phospholipase C beta 1
Epitope Specificity	441-540/1216
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 C2 domain.Contains 1 PI-PLC X-box domain.Contains 1 PI-PLC Y-box domain.
SUBUNIT	Interacts with DGKQ.
DISEASE	Defects in PLCB1 are the cause of epileptic encephalopathy early infantile type 12 (EIEE12) [MIM:613722]. EIEE12 is a form of epilepsy characterized by frequent tonic seizures or spasms beginning in infancy with a specific EEG finding of suppression-burst patterns, characterized by high-voltage bursts alternating with almost flat suppression phases. Patients may progress to West syndrome, which is characterized by tonic spasms with clustering, arrest of psychomotor development, and hypsarrhythmia on EEG.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Phospholipase C beta 1 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. Its gene is activated by two G-protein alpha subunits, alpha-q and alpha-11. Two transcript variants encoding different isoforms have been found for its gene.

Additional Information

Gene ID	23236
Other Names	DEE12; EIEE12; PI-PLC; PLC-154; PLC-I; PLC-beta-1; PLC154; PLCB1A; PLCB1B; 3110043I21Rik; Plcb; mKIAA0581; PLC'1; PLCbeta1; Phosphb; RATPHOSPHB; PLCB1_HUMAN; PLCB1; Phosphoinositide phospholipase C-beta-1; Phospholipase C-I (PLC-I); Phospholipase C-beta-1 (PLC-beta-1); 3.1.4.11; KIAA0581; PLCB1_MOUSE; PLCB1_RAT; phospholipase C beta 1; phospholipase

	C, beta 1 (phosphoinositide-specific); phosphoinositide phospholipase C
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 g/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}

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