Immunoway
Best Tools for immunology Research

PLC β3 (phospho Ser537) Polyclonal Antibody

Catalog No : YP0707

Reactivity : Human;Mouse;Rat

Applications : WB;IHC;IF;ELISA

Target : PLCβ3

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 : PLCB3

Protein Name : 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3

Human Gene Id : 5331

Human Swiss Prot No : Q01970

Mouse Swiss Prot No : P51432

Rat Swiss Prot No : Q99JE6

Immunogen : The antiserum was produced against synthesized peptide derived from human PLC beta3 around the phosphorylation site of Ser537. AA range:503-552

Specificity : Phospho-PLC β3 (S537) Polyclonal Antibody detects endogenous levels of PLC

β3 protein only when phosphorylated at S537.

Formulation :   Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source :   Polyclonal, Rabbit,IgG

Dilution :   WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

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 :   150kD

Cell Pathway :   Stem cell pathway; WNT;WNT-T CELL;β-Catenin; AMPK

Background :   This gene encodes a member of the phosphoinositide phospholipase C beta enzyme family that catalyze the production of the secondary messengers diacylglycerol and inositol 1,4,5-triphosphate from phosphatidylinositol in G-protein-linked receptor-mediated signal transduction. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010],

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.,similarity:Contains 1 C2 domain.,similarity:Contains 1 PI-PLC X-box domain.,similarity:Contains 1 PI-PLC Y-box domain.,subunit:Interacts with SHANK2 (By similarity). Interacts with LPAR2.,

Subcellular Location :   Cytoplasm . Membrane . Nucleus . And particulate fractions. .

Expression :   Epithelium,Uterus,
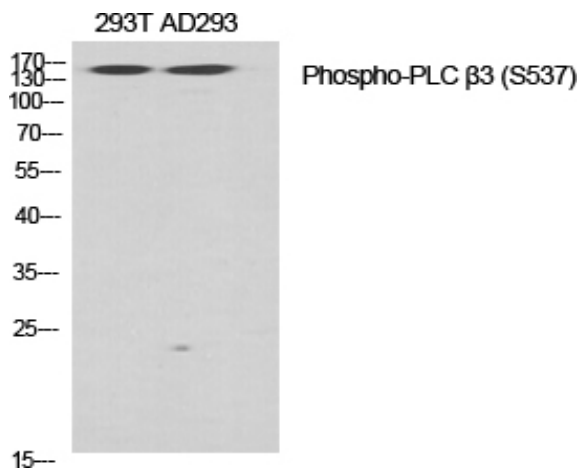
Tag :   orthogonal

Sort :   12823

No2 :   29021S

No4 :   1

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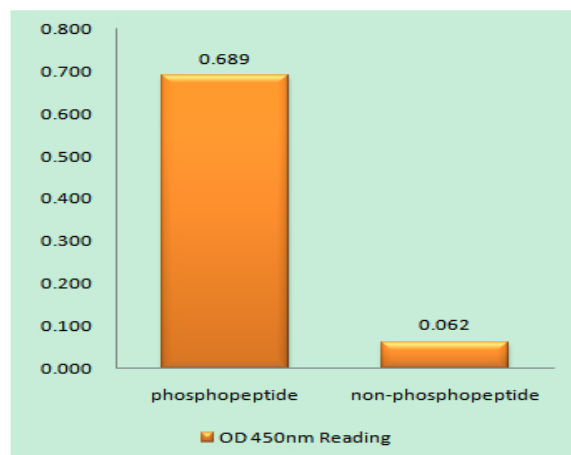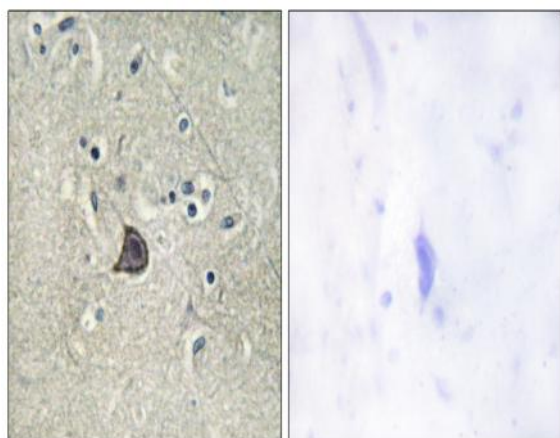
Host : Rabbit

Modifications : Phospho

Products Images

Western Blot analysis of various cells using Phospho-PLC β3 (S537) Polyclonal Antibody diluted at 1:500

Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PLC beta3 (Phospho-Ser537) Antibody

Immunohistochemistry analysis of paraffin-embedded human brain, using PLC beta3 (Phospho-Ser537) Antibody. The picture on the right is blocked with the phospho peptide.

JK

PLC β3--
(pSer537)

-- 170
-- 130
-- 95
-- 72
(kD)
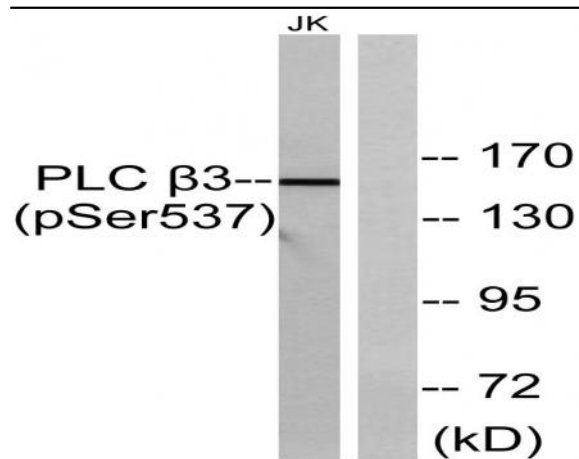
Western blot analysis of lysates from Jurkat cells treated with UV 15', using PLC beta3 (Phospho-Ser537) Antibody. The lane on the right is blocked with the phospho peptide.