

## PLC $\beta$ 2 Polyclonal Antibody

<b>Catalog No :</b>	YT3788
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC
<b>Target :</b>	PLC $\beta$ 2
<b>Fields :</b>	>>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
<b>Gene Name :</b>	PLCB2
<b>Protein Name :</b>	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-2
<b>Human Gene Id :</b>	5330
<b>Human Swiss Prot No :</b>	Q00722
<b>Mouse Gene Id :</b>	18796
<b>Mouse Swiss Prot No :</b>	A3KGF7
<b>Rat Gene Id :</b>	85240
<b>Rat Swiss Prot No :</b>	O89040

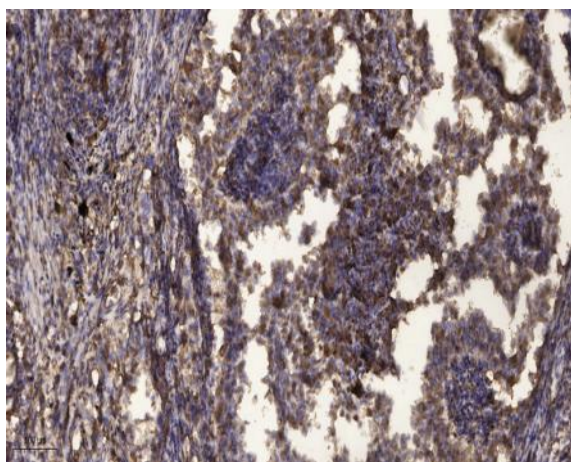
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<b>Immunogen :</b>	<u>Synthesized peptide derived from the Internal region of human PLC <math>\beta</math>2.</u>
<b>Specificity :</b>	<u>PLC <math>\beta</math>2 Polyclonal Antibody detects endogenous levels of PLC <math>\beta</math>2 protein.</u>
<b>Formulation :</b>	<u>Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.</u>
<b>Source :</b>	<u>Polyclonal, Rabbit,IgG</u>
<b>Dilution :</b>	<u>WB 1:500-2000;IHC 1:50-300</u>
<b>Purification :</b>	<u>The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.</u>
<b>Concentration :</b>	<u>1 mg/ml</u>
<b>Storage Stability :</b>	<u>-15 °C to -25 °C/1 year(Do not lower than -25 °C)</u>
<b>Observed Band :</b>	<u>150kD</u>
<b>Cell Pathway :</b>	<u>Stem cell pathway; WNT;WNT-T CELL;<math>\beta</math>-Catenin; AMPK</u>
<b>Background :</b>	<u>catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1D-myo-inositol 1,4,5-trisphosphate + diacylglycerol.,cofactor:Binds 1 calcium ion per subunit.,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-2 is most effectively mediated by one G-protein alpha subunit, alpha-16.,similarity:Contains 1 C2 domain.,similarity:Contains 1 PI-PLC X-box domain.,similarity:Contains 1 PI-PLC Y-box domain.,subunit:Interacts with RAC1.,</u>
<b>Function :</b>	<u>catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1D-myo-inositol 1,4,5-trisphosphate + diacylglycerol.,cofactor:Binds 1 calcium ion per subunit.,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-2 is most effectively mediated by one G-protein alpha subunit, alpha-16.,similarity:Contains 1 C2 domain.,similarity:Contains 1 PI-PLC X-box domain.,similarity:Contains 1 PI-PLC Y-box domain.,subunit:Interacts with RAC1.,</u>
<b>Subcellular Location :</b>	<u>intracellular,cytosol,</u>
<b>Expression :</b>	<u>Placenta,Spleen,Thymus,</u>

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**Sort :** 12821**No4 :** 1**Host :** Rabbit**Modifications :** Unmodified

## Products Images



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).