

**PLC  $\beta$ 3 (phospho Ser537) Polyclonal Antibody**

<b>Catalog No :</b>	YP0707
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	PLC $\beta$ 3
<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>	PLCB3
<b>Protein Name :</b>	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3
<b>Human Gene Id :</b>	5331
<b>Human Swiss Prot No :</b>	Q01970
<b>Mouse Swiss Prot No :</b>	P51432
<b>Rat Swiss Prot No :</b>	Q99JE6
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human PLC beta3 around the phosphorylation site of Ser537. AA range:503-552
<b>Specificity :</b>	Phospho-PLC $\beta$ 3 (S537) Polyclonal Antibody detects endogenous levels of PLC

$\beta$ 3 protein only when phosphorylated at S537.

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

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**Source :** Polyclonal, Rabbit,IgG

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

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 150kD

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**Cell Pathway :** Stem cell pathway; WNT;WNT-T CELL; $\beta$ -Catenin; AMPK

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**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],

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**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.,

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

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**Expression :** Epithelium,Uterus,

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**Tag :** orthogonal

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**Sort :** 12823

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**No2 :** 29021S

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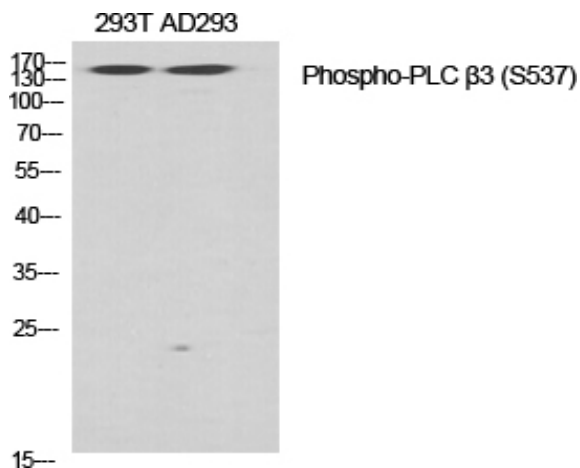
**No4 :** 1

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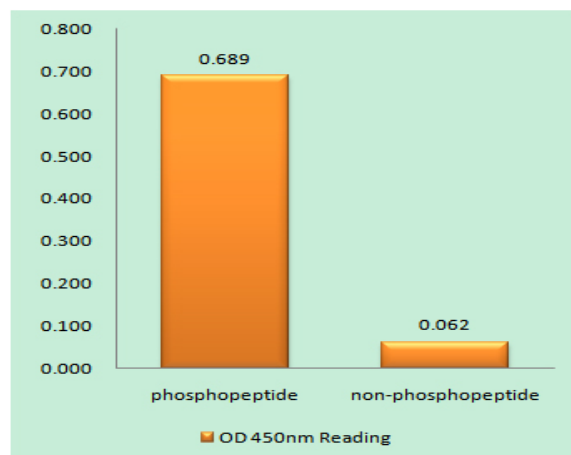
Host : Rabbit

Modifications : Phospho

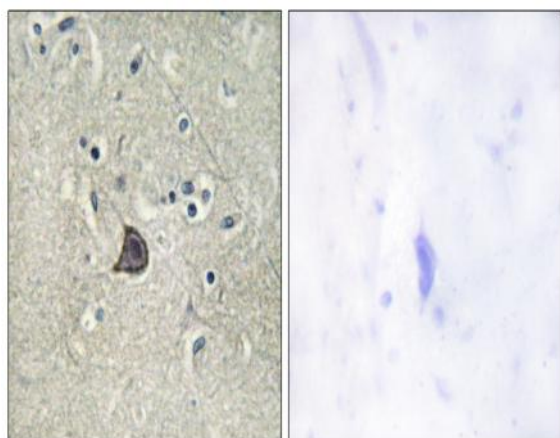
## Products Images



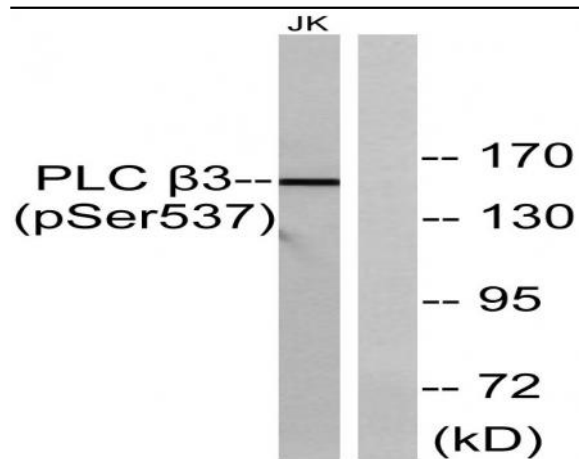
Western Blot analysis of various cells using Phospho-PLC  $\beta$ 3 (S537) Polyclonal Antibody diluted at 1:500



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.



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.