

**Phospho PKC  $\theta$  (Y90) rabbit pAb**

<b>Catalog No :</b>	YP1591
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC
<b>Target :</b>	PKC $\theta$
<b>Fields :</b>	>>NF-kappa B signaling pathway;>>Autophagy - animal;>>Vascular smooth muscle contraction;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>T cell receptor signaling pathway;>>Inflammatory mediator regulation of TRP channels;>>Adipocytokine signaling pathway;>>Insulin resistance;>>Shigellosis;>>PD-L1 expression and PD-1 checkpoint pathway in cancer
<b>Gene Name :</b>	PRKCQ PRKCT
<b>Protein Name :</b>	Phospho PKC $\theta$ (Y90)
<b>Human Gene Id :</b>	5588
<b>Human Swiss Prot No :</b>	Q04759
<b>Mouse Gene Id :</b>	18761
<b>Mouse Swiss Prot No :</b>	Q02111
<b>Rat Swiss Prot No :</b>	Q9WTQ0
<b>Immunogen :</b>	Synthesized peptide derived from human Phospho PKC $\theta$ (Y90)
<b>Specificity :</b>	This antibody detects endogenous levels of Human,Mouse,Rat Phospho PKC $\theta$ (Y90)
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300
<b>Purification :</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	78kD

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**Background :** catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:The C1 domain, containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B), is the diacylglycerol sensor and the C2 domain is a non-calcium binding domain.,enzyme regulation:Three specific sites; Thr-538 (activation loop of the kinase domain), Ser-676 (turn motif) and Ser-695 (hydrophobic region), need to be phosphorylated for its full activation.,function:PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters.,function:This is a calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. Essential for T-cell receptor (TCR)-mediated T-cell activation, but is dispensable during TCR-dependent thymocyte development. Links the TCR signaling complex to the activation of NF-kappa-B in mature T lymphocytes. Required for interleukin-2 (IL2) production.,PTM:Autophosphorylation at Thr-219 is required for targeting to the TCR and cellular function of PKC upon antigen receptor ligation.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 C2 domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers.,subunit:Interacts with TXNL2/PICOT.,tissue specificity:Skeletal muscle, megakaryoblastic cells and platelets.,

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**Function :** regulation of cell growth, response to hypoxia, regulation of cytokine production, positive regulation of immune system process, regulation of leukocyte activation, positive regulation of leukocyte activation, protein amino acid phosphorylation, proteolysis, membrane protein ectodomain proteolysis, phosphorus metabolic process, phosphate metabolic process, intracellular signaling cascade, regulation of mitotic cell cycle, aging, positive regulation of cell proliferation, macromolecule catabolic process, response to temperature stimulus, response to heat, response to wounding, response to abiotic stimulus, response to endogenous stimulus, response to hormone stimulus, response to carbohydrate stimulus, response to hexose stimulus, response to glucose stimulus, positive regulation of biosynthetic process, response to organic substance, regulation of G2/M transition of mitotic cell cycle, p

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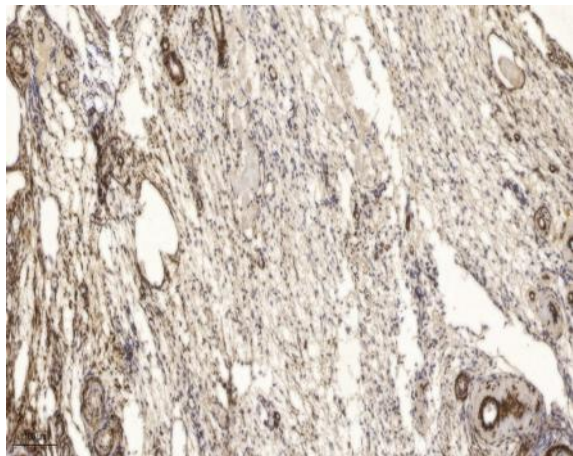
**Subcellular Location :** Cytoplasm. Cell membrane; Peripheral membrane protein. In resting T-cells, mostly localized in cytoplasm. In response to TCR stimulation, associates with lipid rafts and then localizes in the immunological synapse.

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**Expression :** Expressed in skeletal muscle, T-cells, megakaryoblastic cells and platelets.

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## Products Images



Immunohistochemical analysis of paraffin-embedded human oophoroma. 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).