

## Phospho PKC theta (Y90) Rabbit Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP11925
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	100ul, 50ul, 20ul
<b>Immunogen</b>	Synthesized peptide derived from human Phospho PKC $\theta$ (Y90)
<b>Mol wt</b>	77660
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Phospho PKC $\theta$
<b>Synonyms</b>	Phospho PKC $\theta$ ;Y90; Protein kinase C theta type; EC 2.7.11.13; nPKC-theta

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

Catalytic activity:ATP + a protein = ADP + a phosphoprotein.[cofactor:Magnesium.]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. 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.[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. Belongs to the protein kinase superfamily. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 1 protein kinase domain. Contains 2 phorbol-ester/DAG-type zinc fingers. subunit:Interacts with TXNL2/PICOT. tissue specificity:Skeletal muscle| megakaryoblastic cells and platelets.]

### Recommended Dilution

WB: 1: 1000 - 1: 2000

ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

### Images

No images.

### Storage

-20°C for 1 year