

## PKC-pan ( $\alpha$ T497) polyclonal antibody

Catalog: BS4348

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions including cell growth and differentiation, gene expression, hormone secretion and membrane function. PKCs were originally identified as serine/threonine protein kinases whose activity was dependent on calcium and phospholipids. Diacylglycerols (DAG) and tumor promoting phorbol esters bind to and activate PKC. PKCs can be subdivided into at least two major classes including conventional (c) PKC isoforms ( $\alpha$ ,  $\beta$ I,  $\beta$ II and  $\gamma$ ) and novel (n) PKC isoforms ( $\delta$ ,  $\epsilon$ ,  $\zeta$ ,  $\eta$  and  $\theta$ ). Patterns of expression for each PKC isoform differ among tissues and PKC family members exhibit clear differences in their cofactor dependencies. For instance, the kinase activities of nPKC  $\delta$  and  $\epsilon$  are independent of  $\text{Ca}^{2+}$ .

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~75 to 88 kDa

### Swiss-Prot:

P17252/P05771/Q05655/Q02156/P05129/P24723/Q04759/Q05513

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

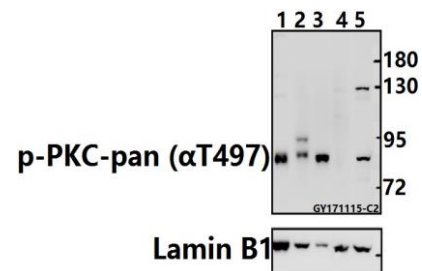
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

p-PKC-pan ( $\alpha$ T497) polyclonal antibody detects endogenous levels of PKC PKC  $\alpha$ ,  $\beta$  I,  $\beta$  II,  $\gamma$ ,  $\delta$ ,  $\epsilon$ ,  $\eta$ ,  $\zeta$  and  $\theta$  isoforms only when phosphorylated at a residue homologous to threonine 497 of human PKC $\alpha$ .

### DATA:



Western blot (WB) analysis of p-PKC-pan ( $\alpha$ T497) pAb at 1:500 dilution

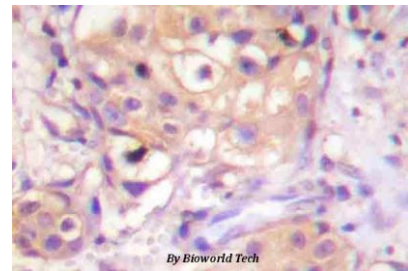
Lane1: The Spleen tissue lysate of Mouse(40ug)

Lane2: The Brain tissue lysate of Rat(40ug)

Lane3: HeLa whole cell lysate(20ug)

Lane4: HEK293T whole cell lysate(40ug)

Lane5: A549 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of p-PKC-pan ( $\alpha$ T497) pAb in paraffin-embedded human breast carcinoma tissue.

### Note:

For research use only, not for use in diagnostic procedure.

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