

## PKC $\zeta$ (phospho-T560) polyclonal antibody

Catalog: BS4347

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 differs 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  $\text{Ca}^{++}$ . On the other hand, nPKC  $\delta$  and  $\epsilon$ , as well as all of the cPKC members, possess phorbol ester-binding activities and kinase activities

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 70 to 85 kDa

### Swiss-Prot:

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:

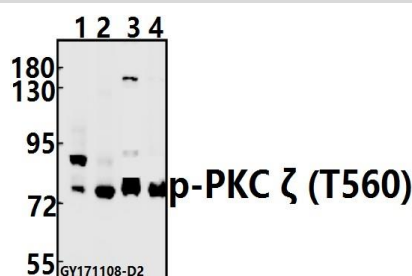
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

### Specificity:

p-PKC  $\zeta$  (T560) polyclonal antibody detects endogenous levels of PKC  $\zeta$  protein only when phosphorylated at Thr560

### DATA:



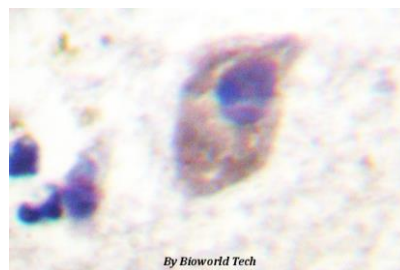
Western blot (WB) analysis of p-PKC  $\zeta$  (T560) pAb at 1:500 dilution

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

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

Lane3: HEK293T whole cell lysate(20ug)

Lane4: PC3 whole cell lysate(20ug)



Immunohistochemistry (IHC) analyzes of p-PKC  $\zeta$  (T560) pAb in paraffin-embedded human brain tissue.

### Note:

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

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