Polyclonal Anti-Protein Kinase C alpha, PKCα

**Immunogen**
A synthetic peptide corresponding to the C-terminal of human PKCα, identical to the related rat and mouse sequence

**Purity**
Immunogen affinity purified.

**Application**
*Western blot*
At 1-2μg/ml with the appropriate system to detect PKCα in cells and tissues.

*Immunohistochemistry(P)*
At 0.5-1μg/ml to detect PKCα in formalin fixed and paraffin embedded tissues.

*Other applications have not been tested.*
Optimal dilutions should be determined by end user.

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

**Reconstitution**
0.2ml of distilled water will yield a concentration of 500μg/ml.

**Storage**
At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

**Relative detection systems**
Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IH(P).
BACKGROUND
Protein kinase C (PKC) is the major phorbol ester receptor. Activation of PKC by calcium ions and the second messenger diacylglycerol is thought to play a central role in the induction of cellular responses to a variety of ligand-receptor systems and in the regulation of cellular responsiveness to external stimuli. Three of these, termed alpha, beta and gamma, are highly homologous. PRKCA1 is mapped to 17q22-q23.2. PKC-alpha regulates cardiac contractility and propensity toward heart failure.

REFERENCE