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 many different isoforms (α, βI, βII, γ, δ, ε, ζ, η, θ, λ, μ and ν). 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 PKC-δ and ε are independent of Ca2+.

**CHROMOSOMAL LOCATION**

Genetic locus: PRKCE (human) mapping to 2p21; Prkce (mouse) mapping to 17E4.

**SOURCE**

PKC ε (C-15) is available as either rabbit (sc-214) or goat (sc-214-G) polyclonal affinity purified antibody raised against a peptide mapping at the C-terminus of PKC ε of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-214 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for ChIP application, sc-214 X, 200 µg/0.1 ml.

**APPLICATIONS**

PKC ε (C-15) is recommended for detection of PKC ε of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PKC ε (C-15) is also recommended for detection of PKC ε in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PKC ε siRNA (h): sc-36251, PKC ε siRNA (m): sc-36250, PKC ε shRNA Plasmid (h): sc-36251-SH, PKC ε shRNA Plasmid (m): sc-36250-SH, PKC ε shRNA (h) Lentiviral Particles: sc-36251-V and PKC ε shRNA (m) Lentiviral Particles: sc-36250-V.

PKC ε (C-15) X TransCruz antibody is recommended for ChIP assays.

Molecular Weight of PKC ε: 90 kDa.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**SELECT PRODUCT CITATIONS**


Try PKC ε (E-5): sc-1681 or PKC (A-3): sc-17769, our highly recommended monoclonal alternatives to PKC ε (C-15). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see PKC ε (E-5): sc-1681.