## Phospho-PKCa (Thr497) (F1) rabbit mAb APC Conjugate

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## For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

Format: APC

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.09% NaN3, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human, Mouse, Rat

Recommended

Usage: For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ L per million cells or 5  $\mu$ L per 100

µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each

application. See product image legends for additional information.

**Immunogen:** A synthetic phospho-peptide corresponding to residues surrounding Thr497 of human phospho PKC?

Description: PKC? is a calcium-dependent isozyme of the PKC family that phosphorylates serine/threonine

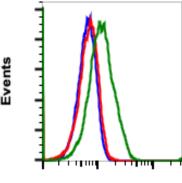
residues in apoptosis and cellular proliferation and differentiation pathways, including the MAPK cascade. PKC? directly phosphorylated Raf-1, inducing survival genes. An increase in PKC? is associated with multi-drug resistance in cancer cell lines, and increased expression in breast cancers is noted as causing a particularly malignant phenotype. Thus PKC? has been the target of novel cancer therapeutics, with some promising developments in microRNA inhibitors. PKC? is itself phosphorylated by mTOR. PKC? also plays an important role in water regulator and solute absorption in the cell, where it regulates aquaporin 2 by initiating AQP2 ubiquination and lysosomal degradation.

**References:** Blobe GC, et al., (1993) JBC. 268:658-664.

Sim JH, et al., (2014) PLoS One. 9:e101753.

Martin EC, et al. (2012) Molecular Carcinogenesis. 53:38-48.





Flow cytometric analysis of NIH3T3 cells treated with imatinib and unstained as negative control (blue) or treated with imatinib (red) or treated with pervanadate (green) and stained using PKC? (T497) antibody PKCaT497-F1 APC conjugate. Cat. #2339.

Phospho-PKCa (T497) APC