



Product Information Sheet

Polyclonal Anti-Protein Kinase C alpha , **PKC α** (Magnetic Bead Conjugate)

Catalogue No. PA1065-M

Lot No. 03A01

Ig type: rabbit IgG1

Size: 100 μ g/Vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Immunoprecipitation (IP)

Immunogen

A synthetic peptide corresponding to the C-terminal of human PKC α , identical to the related rat and mouse sequence

Purification

Immunogen affinity purified

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

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

1. Braz, J. C.; Gregory, K.; Pathak, A.; Zhao, W.; Sahin, B.; Klevitsky, R.; Kimball, T. F.; Lorenz, J. N.; Nairn, A. C.; Liggett, S. B.; Bodi, I.; Wang, S.; and 9 others : PKC-alpha regulates cardiac contractility and propensity toward heart failure. *Nature Med.* 10: 248-254, 2004.
2. Latos-Bielenska, A.; Klett, C.; Just, W.; Hameister, H. : Refinement of localization of the human genes for myeloperoxidase (MPO), protein kinase C, alpha polypeptide, PRKCA, and the DNA fragment D17S21 on chromosome 17q. *Hereditas* 115: 69-72, 1991.

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