

anti-PKC Gamma (Protein kinase C gamma)

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Overview

Product Name : anti-PKC Gamma (Protein kinase C gamma)

Product Type : Primary Antibodies

Description : Rabbit polyclonal to PKC Gamma (Protein kinase C gamma)

Lot No : OJA01

Product Information

Immunogen : Synthetic peptide

Clonality : Polyclonal Antibody

Host : Rabbit

Isotype / Subtype : IgG

Application(추가정보) : WB (0.2 µg/mL), IP (2.0 µg)

Reactivity : Mouse,Rat

Positive control : Mouse brain

Concentration : 1 mg/ml

Storage : Store for 1 year at -20°C from date of shipment

Purification : Protein A column

Composition : HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

Conjugation unconjugated

Target

Background : Protein kinase C (PKC) is a family of serine-threonine kinases that regulate a broad spectrum of cellular functions. The family is composed of nine genes that express structurally related phospholipid-dependent kinases with distinct means of regulation and tissue distribution. Based on their structures and sensitivities to Ca²⁺ and diacylglycerol (DAG), they have been classified into conventional PKCs (alpha, beta, and gamma), novel PKCs (Delta, Epsilon, Eta, and Iota), and atypical PKCs (Zeta and Lambda/Iota). PKC Gamma is a member of the cPKC subfamily which is activated by Ca²⁺ and diacylglycerol in the presence of phosphatidylserine. Physiologically, PKC Gamma is activated by a mechanism coupled with receptor-mediated breakdown of inositol phospholipid as other cPKC isotypes. PKC Gamma is expressed solely in the brain and spinal cord and its localization is restricted to neurons. Within the brain, PKC Gamma is the most abundant in the cerebellum, hippocampus and cerebral cortex, where the existence of neuronal plasticity has been demonstrated.

Background reference : 1) Saito N, Shirai Y. J Biochem (Tokyo). 2002; vol.132(5): p.683-7.
2) Chou WH, Messing RO. Trends Cardiovasc Med. 2005; vol.15(2): p.47-51.

Research area : Cell Signaling

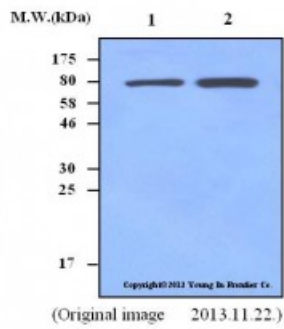
Database link - GenelD 5582

Database link - SwissProt no. P05129

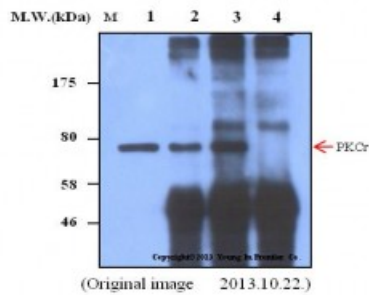
Function : This is a calcium-activated, phospholipid-dependent, serine- and threonine-specific enzyme. PKC is activated by diacyl

glycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters.

Image



Western-blot Analysis
Lane 1 : Mouse Brain Tissue
Lane 2 : Rat Brain Tissue



Immunoprecipitation Analysis
Lane 1 : Mouse Brain Tissue
Lane 2 : Precipitated from Mouse Brain Tissue 200ug using PKC α 2ug
Lane 3 : Precipitated from Mouse Brain Tissue 200ug using PKC α 5ug
Lane 4 : Precipitated from PBS using PKC α 5ug