Datasheet for ABIN967942
anti－PKC delta antibody（AA 114－289）

## 3 Images

## 5 Publications



# － 

－

## Overview

| Quantity： | $50 \mu \mathrm{~g}$ |
| :--- | :--- |
| Target： | PKC delta（PKCd） |
| Binding Specificity： | AA 114－289 |
| Reactivity： | Human，Mouse，Rat |
| Host： | Mouse |
| Clonality： | Monoclonal |
| Conjugate： | Western Blotting（WB），Immunohistochemistry（IHC），Immunofluorescence（IF）， |
| Application： | Immunoprecipitation（IP） |

## Product Details

| Immunogen： | Human PKCdelta aa．114－289 |
| :--- | :--- |
| Clone： | 14－PKC delta |
| Isotype： | Rat（Rattus），Mouse（Murine） |
| Cross－Reactivity： | 1．Since applications vary，each investigator should titrate the reagent to obtain optimal results． <br> 2．Please refer to us for technical protocols． |
| 3．Caution：Sodium azide yields highly toxic hydrazoic acid under acidic conditions．Dilute azide |  |
|  | compounds in running water before discarding to avoid accumulation of potentially explosive |
| deposits in plumbing． |  |
| 4．Source of all serum proteins is from USDA inspected abattoirs located in the United States． |  | chromatography.

Target Details

| Target: | PKC delta (PKCd) |
| :--- | :--- |
| Alternative Name: | PKC delta (PKCd Products) |
| Background: | The Protein Kinase C (PKC) family of homologous serine/threonine protein kinases. At least |
|  | eleven isozymes have been described. These proteins are products of multiple genes and |
|  | alternative splicing. PKC consists of a single polypeptide chain containing four conserved |
|  | regions (C) and five variable regions (V). The N-terminal half containing C1, C2, V1, and V2 |
|  | constitutes the regulatory domain and interacts with PKC activators Ca2+, phospholipid, |
|  | diacylglycerol, or phorbol ester. However, the novel PKC (nPKC) subfamily members (delta, |
|  | epsilon, eta, and theta isoforms) and the atypical PKC (aPKC) subfamily members (zeta, iota, |
|  | and lambda isoforms) are Ca2+ independent and lack the C2 domain. The aPKC members are |
|  | unique in that their activity is independent of diacylglycerols and phorbol esters. They also lack |
|  | one repeat of the cysteine-rich sequences that are conserved in cPKC and nPKC. The C- |
|  | terminal region of PKC contains the catalytic domain. PKCdelta is involved in myeloid |
|  | differentiation, as well as in the secretory response of antigen-stimulated rat basophilic RBL |

Molecular Weight: $\quad 78$ kDa

Pathways:
Interferon-gamma Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, Regulation of Actin Filament Polymerization, Carbohydrate Homeostasis, Myometrial Relaxation and Contraction, M Phase, G-protein mediated Events, Dicarboxylic Acid Transport, Positive Regulation of Response to DNA Damage Stimulus, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, Lipid Metabolism

## Application Details

Comment:

Restrictions:

Related Products: ABIN968545
For Research Use only

Handling

| Format: | Liquid |
| :---: | :---: |
| Concentration: | $250 \mu \mathrm{~g} / \mathrm{mL}$ |
| Buffer: | Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09 \%$ sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | $-20^{\circ} \mathrm{C}$ |
| Storage Comment: | Store undiluted at $-20^{\circ} \mathrm{C}$. |
| Publications |  |
| Product cited in: | Larsen, Ueyama, Brannock, Shirai, Saito, Larsson, Loegering, Weber, Lennartz: "A role for PKCepsilon in Fc gammaR-mediated phagocytosis by RAW 264.7 cells." in: The Journal of cell biology, Vol. 159, Issue 6, pp. 939-44, (2002) (PubMed). |
|  | Ringshausen, Schneller, Bogner, Hipp, Duyster, Peschel, Decker: "Constitutively activated phosphatidylinositol-3 kinase (PI-3K) is involved in the defect of apoptosis in B-CLL: association with protein kinase Cdelta." in: Blood, Vol. 100, Issue 10, pp. 3741-8, (2002) (PubMed). |
|  | Blass, Kronfeld, Kazimirsky, Blumberg, Brodie: "Tyrosine phosphorylation of protein kinase Cdelta is essential for its apoptotic effect in response to etoposide." in: Molecular and cellular biology, Vol. 22, Issue 1, pp. 182-95, (2001) (PubMed). |
|  | Bell, Burns: "Lipid activation of protein kinase C." in: The Journal of biological chemistry, Vol. 266, Issue 8, pp. 4661-4, (1991) (PubMed). |
|  | Nishizuka: "The molecular heterogeneity of protein kinase C and its implications for cellular regulation." in: Nature, Vol. 334, Issue 6184, pp. 661-5, (1988) (PubMed). |



## Western Blotting

Image 1. Western blot analysis of PKCdelta on rat brain Iysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of PKCdelta.

Immunohistochemistry (Paraffin-embedded Sections)
Image 2. Rat brain zinc-fixed paraffin-embedded tissue

Immunohistochemistry (Paraffin-embedded Sections)
Image 3. Purkinje Cells in rat cerebellum, formalin-fixed paraffin-embedded tissue, citrate pre-treatment, 40X

