

Datasheet for ABIN3043714  
**anti-PKC gamma antibody (C-Term)**



[Go to Product page](#)

**1** Image **2** Publications

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µg                                   |
| Target:              | PKC gamma (PRKCG)                        |
| Binding Specificity: | AA 665-685, C-Term                       |
| Reactivity:          | Rat                                      |
| Host:                | Rabbit                                   |
| Clonality:           | Polyclonal                               |
| Conjugate:           | This PKC gamma antibody is un-conjugated |
| Application:         | Western Blotting (WB)                    |

## Product Details

|                             |   |
|-----------------------------|---|
| Purpose:                    | Rabbit IgG polyclonal antibody for Protein kinase C gamma type(PRKCG) detection. Tested with WB in Human,Mouse,Rat.   |
| Immunogen:                  | A synthetic peptide corresponding to a sequence at the C-terminus of human PKC gamma(665-685aa IDQADFQGFTYVNPDFVHPDA), identical to the related rat and mouse sequences.                        |
| Sequence:                   | IDQADFQGFT YVNPDFVHPD A   |
| Isotype:                    | IgG   |
| Cross-Reactivity (Details): | Predicted Cross Reactivity: human, mouse<br>No cross reactivity with other proteins.<br>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities. |
| Characteristics:            | Rabbit IgG polyclonal antibody for Protein kinase C gamma type(PRKCG) detection. Tested with  |

## Product Details

---

WB in Human,Mouse,Rat.

Gene Name: protein kinase C, gamma

Protein Name: Protein kinase C gamma type(PKC-gamma)

---

Purification: Immunogen affinity purified.

---

## Target Details

---

Target: PKC gamma (PRKCG)

---

Alternative Name: PRKCG ([PRKCG Products](#))

---

Background: The gamma isotype of protein kinase C(PKC gamma) is a member of the classical PKC(cPKC) subfamily which is activated by Ca(2+) 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 such as PKC alpha and PKC beta. PKC gamma is expressed solely in the brain and spinal cord and its localization is restricted to neurons, while PKC alpha and PKC beta are expressed in many tissues in addition to the brain. 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. PKC gamma gene is mutated in spinocerebellar ataxia type 14(SCA14). Verbeek et al.(2005) point out the specific alterations in mutant PKC gamma function that could lead to the selective neuronal degeneration of SCA14.

Synonyms: KPCG\_HUMAN antibody|MGC57564 antibody|OTTHUMP00000067291 antibody|PKC-gamma antibody|PKCC antibody|PKCG antibody|PRKCG antibody|Protein kinase C gamma antibody|Protein kinase C gamma polypeptide antibody|Protein kinase C gamma type antibody|Protein kinase C, gamma antibody|SCA 14 antibody|SCA14 antibody

---

UniProt: [P05129](#)

---

Pathways: [WNT Signaling](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Thyroid Hormone Synthesis](#), [Myometrial Relaxation and Contraction](#), [G-protein mediated Events](#), [Positive Regulation of Response to DNA Damage Stimulus](#), [Interaction of EGFR with phospholipase C-gamma](#), [Thromboxane A2 Receptor Signaling](#), [VEGF Signaling](#)

---

## Application Details

---

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be

---

## Application Details

---

fit for the product based on sequence similarities.

Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

## Handling

---

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

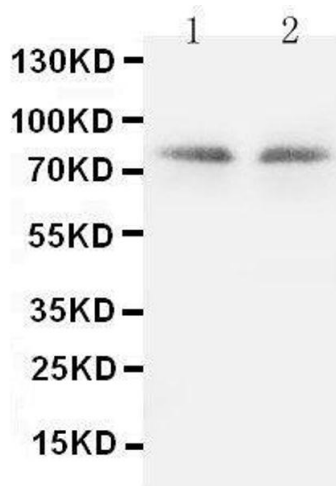
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

---

Product cited in: Gan, Wang, Zhao, Wu, Yang, Peng: "5-(Bis(3-(2-hydroxyethyl)-1H-indol-2-yl)methyl)-2-hydroxybenzoic acid (BHIMHA): showing a strategy of designing drug to block lung metastasis of tumors." in: **Drug design, development and therapy**, Vol. 10, pp. 711-21, (2016) ([PubMed](#)).

Zhang, Xu, Song, Yao, Ji: "Extracts from *Salvia-Nelumbinis naturalis* alleviate hepatosteatosi s via improving hepatic insulin sensitivity." in: **Journal of translational medicine**, Vol. 12, pp. 236, (2015) ([PubMed](#)).



### Western Blotting

**Image 1.** Anti-PKC gamma antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Rat Brain Tissue Lysate