**Product Name:** **KD-Validated PKC Delta + PKC Theta Recombinant Rabbit Monoclonal Antibody**

**Catalog #:** **KVAb01211**

For research use only.

## Summary

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|---|---|
| **Description** | KO&KD-Validated antibody |
| **Host** | Rabbit |
| **Application** | WB,FCM,ICC |
| **Reactivity** | Human,Mouse,Rat |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | Rabbit IgG |
| **Clonality** | Rabbit mAb |
| **Form** | Liquid |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide. |
| **Purification** | Affinity purification |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| **Molecular Weight** | Predicted, 78,82 kDa; observed, 73 kDa |

## Antigen Information

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|---|---|
| **Gene Name** | PRKCD/PRKCQ |
| **Alternative Names** | PRKCD; Protein Kinase C Delta; Tyrosine-Protein Kinase PRKCD; Protein Kinase C Delta Type; EC 2.7.11.13; NPKC-Delta; PKCD; Protein Kinase C Delta VIII; Protein Kinase C, Delta; EC 2.7.10.2; EC 2.7.11; ALPS3; CVID9; MAY1; PRKCQ; Protein Kinase C Theta; Protein Kinase C Theta Type; EC 2.7.11.13; NPKC-Theta; PRKCT; Protein Kinase C, Theta; EC 2.7.11 |
| **Gene ID** | 5580,5588 |
| **SwissProt ID** | Q05655,Q04759 |
| **Immunogen** | A synthesized peptide derived from human PKC delta + PKC theta |

## Background

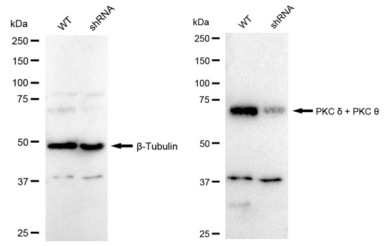
PRKCD: The protein encoded by this gene is a member of the protein kinase C family of serine- and threonine-specific protein kinases. The encoded protein is activated by diacylglycerol and is both a tumor suppressor and a positive regulator of cell cycle progression. Also, this protein can positively or negatively regulate apoptosis. Defects in this gene are a cause of autoimmune lymphoproliferative syndrome. [provided by RefSeq, Aug 2017]

PRKCQ: Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipid-dependent protein kinase. This kinase is important for T-cell activation. It is required for the activation of the transcription factors NF-kappaB and AP-1, and may link the T cell receptor (TCR) signaling complex to the activation of the transcription factors. [provided by RefSeq, Jul 2008]

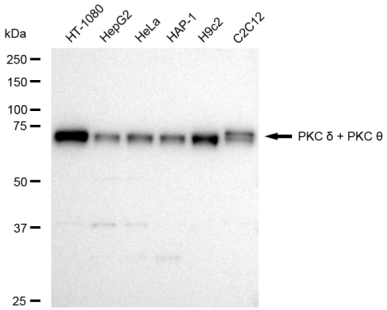
## Research Area

Signal Transduction,Neuroscience,Cancer

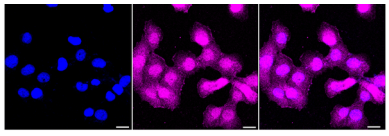
## Image Data



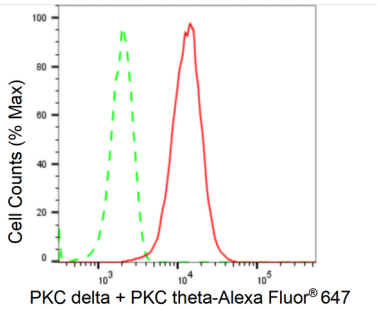

Western blotting analysis using PKC delta + PKC theta antibody (KVAb01211). PKC delta + PKC theta expression in wild type (WT) and PKC delta + PKC theta shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with PKC delta + PKC theta antibody (KVAb01211, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.




Western blotting analysis using PKC delta + PKC theta antibody (KVAb01211). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PKC delta + PKC theta antibody (KVAb01211, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with PKC delta + PKC theta antibody (KVAb01211, 1:1,000). Nuclei were stained blue with DAPI; PKC delta + PKC theta was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.




Flow cytometric analysis of PKC delta + PKC theta expression in HT-1080 cells using PKC delta + PKC theta antibody (KVAb01211, 1:2,000). Green, isotype control; red, PKC delta + PKC theta.