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Datasheet for ABIN2856799

## anti-PKC alpha antibody (N-Term)

### 3 Images

#### Overview

Quantity:	100 µL
Target:	PKC alpha (PKCa)
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKC alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

#### Product Details

Immunogen:	Recombinant protein encompassing a sequence within the N-terminus region of human PKC alpha. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to PKC alpha (protein kinase C, alpha) PKC alpha antibody
Purification:	Purified by antigen-affinity chromatography.

#### Target Details

Target:	PKC alpha (PKCa)
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## Target Details

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Alternative Name: [protein kinase C alpha \(PKCa Products\)](#)

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Background: 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 in cells. The protein encoded by this gene is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes.

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Molecular Weight: 77 kDa

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Gene ID: 5578

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UniProt: [P17252](#)

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Pathways: [WNT Signaling](#), [TCR Signaling](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Thyroid Hormone Synthesis](#), [cAMP Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [Cell-Cell Junction Organization](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [G-protein mediated Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Interaction of EGFR with phospholipase C-gamma](#), [Thromboxane A2 Receptor Signaling](#), [VEGFR1 Specific Signals](#), [VEGF Signaling](#)

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## Application Details

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Application Notes: WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

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Comment: Positive Control: H1299 , Jurkat , U87-MG , SK-N-SH , IMR32 , SK-N-AS , Neuro 2A , C8D30 , NIH-3T3 , Raw264.7 , C2C12 , PC-12 , Rat2

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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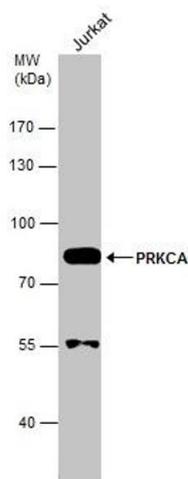
Concentration: 0.69 mg/mL

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## Handling

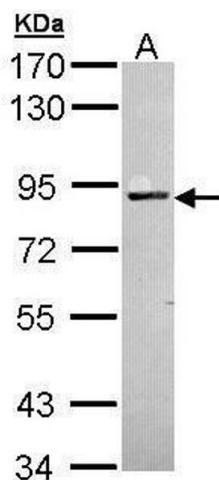
Buffer:	0.1M Tris-Glycine ( pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## Validation report #101746 for Immunofluorescence (IF)



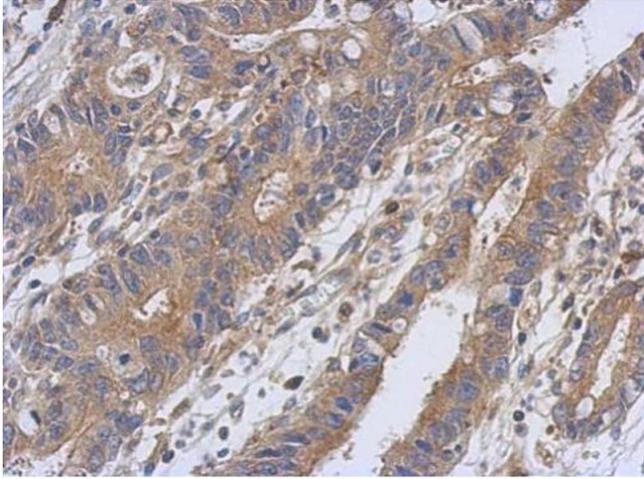
### Western Blotting

**Image 1.** WB Image Whole cell extract (30 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with PRKCA antibody , diluted at 1:1000.



### Western Blotting

**Image 2.** WB Image Sample (30 ug of whole cell lysate) A: H1299 7.5% SDS PAGE antibody diluted at 1:1000



### Immunohistochemistry

**Image 3.** IHC-P Image Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using PKC alpha, antibody at 1:500 dilution.