

Datasheet for ABIN2775614
anti-PKC zeta antibody (N-Term)



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2 Images

Overview

Quantity:	100 µL
Target:	PKC zeta (PRKCZ)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Horse, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKC zeta antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human PRKCZ
Sequence:	MDSVMPSQEP PVDDKNEDAD LPSEETDGIA YISSSRKHDS IKDDSEDLKP
Predicted Reactivity:	Cow: 77%, Dog: 75%, Guinea Pig: 75%, Horse: 75%, Human: 100%, Mouse: 92%, Rabbit: 79%, Rat: 92%
Characteristics:	This is a rabbit polyclonal antibody against PRKCZ. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	PKC zeta (PRKCZ)
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Target Details

Alternative Name:	PRKCZ (PRKCZ Products)
Background:	Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Alternative splicing results in multiple transcript variants encoding different isoforms. Alias Symbols: PKC2, PKC-ZETA Protein Interaction Partner: MAPK7, PRKCZ, AKT2, AKT1, Sqstm1, PARD6A, NUMB, NPM1, HIST1H1B, CFL1, C1QBP, HSP90AA1, NCF1, MARCKS, PPP1R14A, HIST1H1A, UBC, VHL, LRRK2, AJUBA, PARD6B, PAWR, Smurf1, Smurf2, Pard3, HIST3H3, CD44, NCOA3, TFF1, RELA, ESR1, MBP, TRIM41, PIAS4, CCDC115, ZNF7 Protein Size: 409
Molecular Weight:	45 kDa
Gene ID:	5590
NCBI Accession:	NM_001033581 , NP_001028753
UniProt:	Q05513
Pathways:	NF-kappaB Signaling , RTK Signaling , Myometrial Relaxation and Contraction , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Synaptic Membrane , Production of Molecular Mediator of Immune Response , CXCR4-mediated Signaling Events , Thromboxane A2 Receptor Signaling

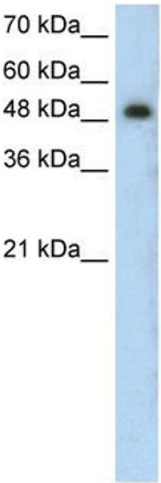
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 409 AA
Restrictions:	For Research Use only

Handling

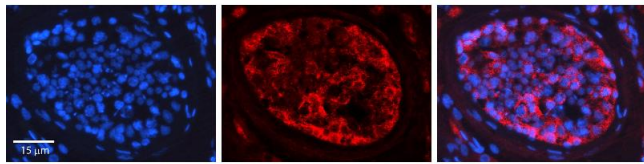
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-PRKCZ Antibody Titration: 0.2-1 ug/ml Positive Control: Jurkat cell lysate



Immunohistochemistry

Image 2. Rabbit Anti-PRKCZ Antibody Formalin Fixed Paraffin Embedded Tissue: Human Testis Tissue Observed Staining: Cytoplasm Primary Antibody Concentration: 1:600 Other Working Concentrations: N/A Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec