Datasheet for ABIN2786697

anti-PKC iota antibody (Middle Region)

2 Images

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Overview

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

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human PRKCI
Sequence:	TVIPYNPSSH ESLDQVGEEK EAMNTRESGK ASSSLGLQDF DLLRVIGRGS
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against PRKCI. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	PKC iota (PRKCI)
Alternative Name:	PRKCI (PRKCI Products)

Target Details

Background:	This gene encodes a member of the protein kinase C (PKC) family of serine/threonine protein kinases. The PKC family comprises at least eight members, which are differentially expressed and are involved in a wide variety of cellular processes. This protein kinase is calcium-independent and phospholipid-dependent. It is not activated by phorbolesters or diacylglycerol. This kinase can be recruited to vesicle tubular clusters (VTCs) by direct interaction with the small GTPase RAB2, where this kinase phosphorylates glyceraldehyde-3-phosphate dehydrogenase (GAPD/GAPDH) and plays a role in microtubule dynamics in the early secretory pathway. This kinase is found to be necessary for BCL-ABL-mediated resistance to drug-induced apoptosis and therefore protects leukemia cells against drug-induced apoptosis. There is a single exon pseudogene mapped on chromosome X. Alias Symbols: DXS1179E, MGC26534, PKCI, nPKC-iota Protein Interaction Partner: PARD6B, PARD6A, UBC, AMOT, SQSTM1, CRX, NPM1, IKBKG, YWHAE, IL1RAP, HSP90AA1, GAB1, CASP8, PARD3, APP, UBD, MAP2K5, MARK2, ARHGAP17, TJP1, ELAVL1, CDK7, MBP, TSC22D1, TTR, FABP4, PARD6G, MARK4, CDC37, RAPGEF2, PNMA1, NIPSNAP1, YWHAZ, YWHAH, MYO10, LLGL1, Protein Size: 596
Molecular Weight:	68 kDa
Gene ID:	5584
NCBI Accession:	NM_002740, NP_002731
UniProt:	P41743
Pathways:	Neurotrophin Signaling Pathway, Cell-Cell Junction Organization, Tube Formation

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 596 AA
Restrictions:	For Research Use only

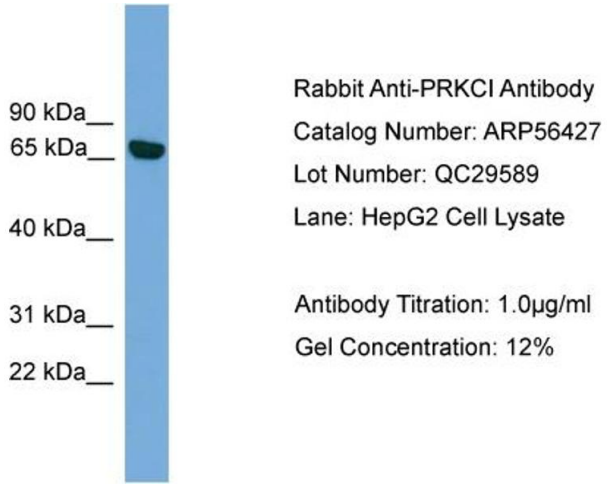
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Handling

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

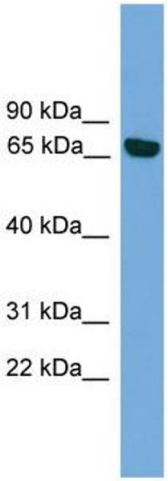


Western Blotting

Image 1. WB Suggested Anti-PRKCI

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:.12500

Positive Control: HepG2 cell lysate



Western Blotting

Image 2. WB Suggested Anti-PRKCI Antibody Titration: 0.2-1 ug/ml

ELISA Titer: 1:312500

Positive Control: HepG2 cell lysate