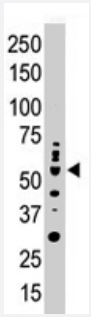
PRKCI polyclonal antibody

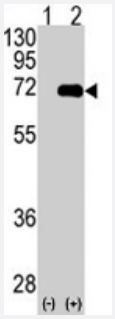
Catalog # PAB4540 Size 400 uL

Applications



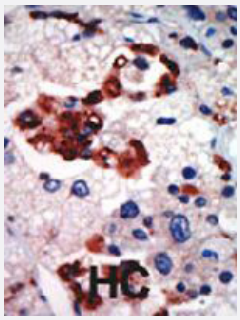
Western Blot (Tissue lysate)

Western blot analysis of PRKCI polyclonal antibody (Cat # PAB4540) in mouse lung lysate . PRKCI (arrow) was detected using purified PRKCI polyclonal antibody (Cat # PAB4540) . Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence .



Western Blot (Transfected lysate)

Western blot analysis of PRKCI (arrow) using rabbit PRKCI polyclonal antibody (Cat # PAB4540). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRKCI gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with PRKCI polyclonal antibody (Cat # PAB4540) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining . This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated . HC = hepatocarcinoma .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PRKCI.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PRKCI.

Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PRKCI

Entrez GeneID	5584
Protein Accession#	P41743

Gene Name	PRKCI
Gene Alias	DXS1179E, MGC26534, PKCI, nPKC-iota
Gene Description	protein kinase C, iota
Omim ID	600539
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000196630|PRKC-lambda/iota|aPKC-lambda/iota|atypical protein kinase C-lambda/iota|protein kinase C iota type

Publication Reference

- Protein kinase C (PKC) betaII induces cell invasion through a Ras/Mek-, PKC iota/Rac 1-dependent signaling pathway.

  Zhang J, Anastasiadis PZ, Liu Y, Thompson EA, Fields AP.

  The Journal of Biological Chemistry 2004 May; 279(21):22118.

- Rab2 interacts directly with atypical protein kinase C (aPKC) iota/lambda and inhibits aPKCiota/lambda-dependent glyceraldehyde-3-phosphate dehydrogenase phosphorylation.

  Tisdale EJ.

  The Journal of Biological Chemistry 2003 Dec; 278(52):52524.

  Application: ELISA, IP, WB, Human, Rat, HeLa, NRK cells

- Rapid backbone 1H, 13C, and 15N assignment of the V1 domain of human PKC iota using the new program IBIS.

  Roehrl MH, Hyberts SG, Sun ZY, Fields AP, Wagner G.

  Journal of Biomolecular NMR 2003 Aug; 26(4):373.

Pathway

- Endocytosis
- Insulin signaling pathway
- Tight junction