

Product Name: PKC Rabbit Polyclonal Antibody
Catalog #: APRab16197



Summary

Production Name	PKC Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PRKCA PRKCA; PKCA; PRKACA; Protein kinase C alpha type; PKC-A; PKC-alpha; PRKCB; PKCB;
Alternative Names	PRKCB1; Protein kinase C beta type; PKC-B; PKC-beta; PRKCD; Protein kinase C delta type; Tyrosine-protein kinase PRKCD; nPKC-delta; PRKCE; PKCE; Protein kinase
Gene ID	5578/5579/5580/5581/5582/5583/5588/5590
SwissProt ID	P17252/P05771/Q05655/Q02156/P05129/P24723/Q04759/Q05513.The antiserum was produced against synthesized peptide derived from human PKC. AA range:623-672

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:5000.Not yet tested in other applications.
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Molecular Weight 67-83kDa(α 76, δ/β 77, γ 78, θ/ϵ 83, ζ 67)

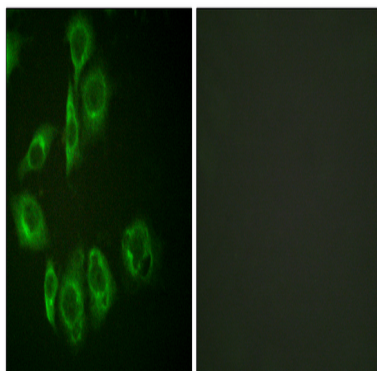
Background

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. [provided by RefSeq, Jul 2] catalytic activity: $\text{ATP} + \text{a protein} = \text{ADP} + \text{a phosphoprotein}$, cofactor: Binds 3 calcium ions per subunit. The ions are bound to the C2 domain, function: PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters, function: This is a calcium-activated, phospholipid-dependent, serine- and threonine-specific enzyme. May play a role in cell motility by phosphorylating CSPG4, similarity: Belongs to the protein kinase superfamily, similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily, similarity: Contains 1 AGC-kinase C-terminal domain, similarity: Contains 1 C2 domain, similarity: Contains 1 protein kinase domain, similarity: Contains 2 phorbol-ester/DAG-type zinc fingers, subunit: Interacts with ADAP1/CENTA1, CSPG4 and PRKCABP. Binds to SDPR in the presence of phosphatidylserine.

Research Area

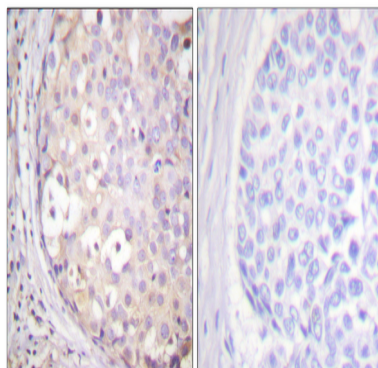
Regulation_Microtubule; Regulation of Actin Dynamics; Stem cell pathway; Insulin Receptor; ErbB/HER; MAPK_ERK_Growth; MAPK_G_Protein; WNT; WNT-T CELL; β -Catenin; B Cell Receptor; PI3K/Akt; mTOR; AMPK

Image Data

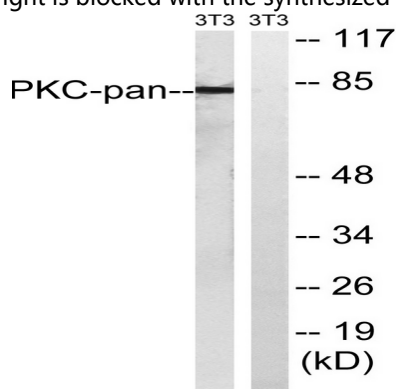


Immunofluorescence analysis of HUVEC cells, using PKC-pan Antibody. The picture on the right is blocked with the synthesized peptide.

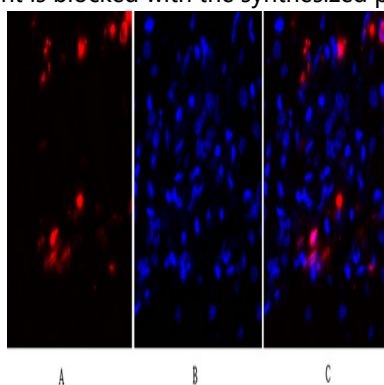
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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using PKC-pan Antibody. The picture on the right is blocked with the synthesized peptide.

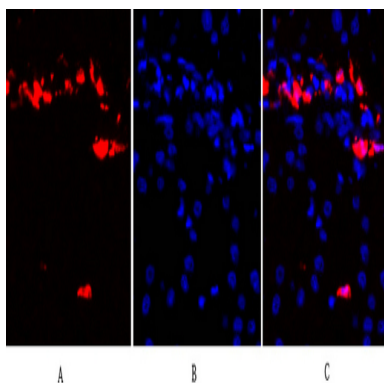


Western blot analysis of lysates from NIH/3T3 cells, treated with PMA 250ng/ml 15', using PKC-pan Antibody. The lane on the right is blocked with the synthesized peptide.



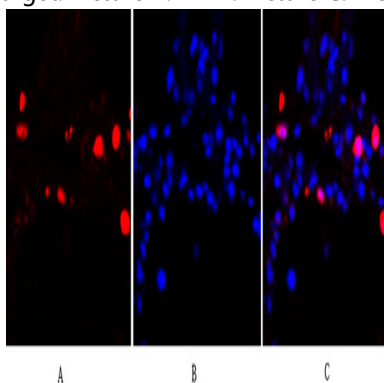
Immunofluorescence analysis of human-liver tissue. 1,PKC Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) .
2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.
Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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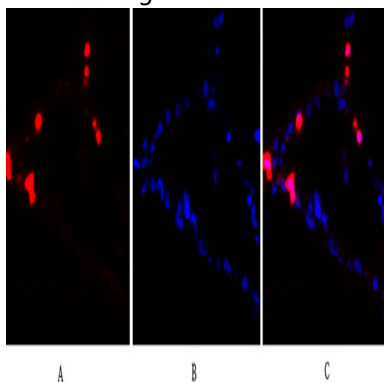


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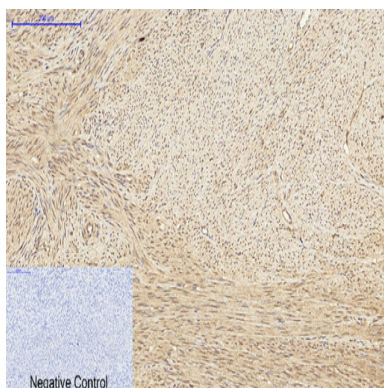


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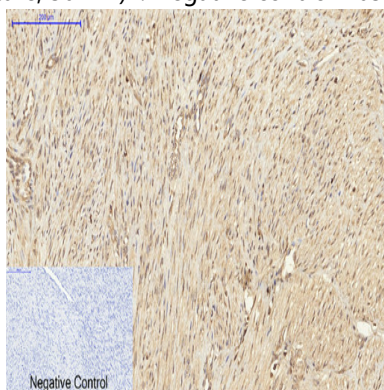


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Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,PKC Polyclonal Antibody was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,PKC Polyclonal Antibody was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.

Note

For research use only.