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PKC alpha Rabbit mAb

Catalog No.: A11107

Recombinant | 8 Publications

Basic Information

Observed MW
77kDa

Calculated MW
77kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IHC-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC0197

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.

Recommended Dilutions

WB 1:1000 - 1:6000

IP
0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

IHC-P 1:200 - 1:2000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5578

Swiss-Prot
P17252

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
AAG6; PKCA; PRKACA; PKCI+/-; PKCalpha; PKC-alpha; PKC alpha

Contact

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Product Information

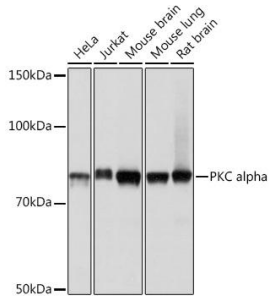
Source
Rabbit

Isotype
IgG

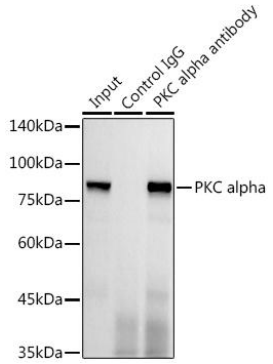
Purity
Affinity purification

Storage
Store at -20℃
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

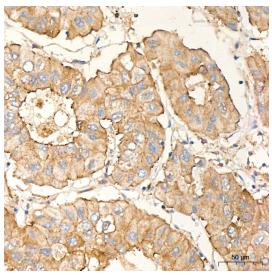
Validation Data



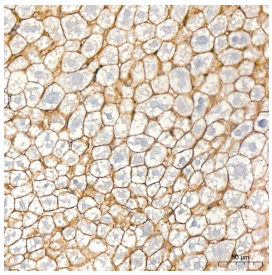
Western blot analysis of various lysates using PKC alpha Rabbit mAb (A11107) at 1: 1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1 s.



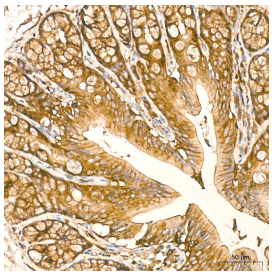
Immunoprecipitation of PKC alpha from 300 µg extracts of HeLa cells was performed using 3 µg of PKC alpha Rabbit mAb (A11107) .Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using PKC alpha Rabbit mAb (A11107) at a dilution of 1:1000.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using PKC alpha Rabbit mAb (A11107) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using PKC alpha Rabbit mAb (A11107) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using PKC alpha Rabbit mAb (A11107) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using PKC alpha Rabbit mAb (A11107) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

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