For Research Use Only

PKC Alpha Polyclonal antibody, PBS Only

Catalog Number:21991-1-PBS Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
21991-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG17275

GenBank Accession Number:
AK055431

GeneID (NCBI):
5578

UNIPROT ID:
P17252

Full Name:
protein kinase C, alpha

Calculated MW:
77 kDa

Observed MW:
77 kDa

Purification Method:
Antigen affinity purification

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, FC (Intra), IP, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

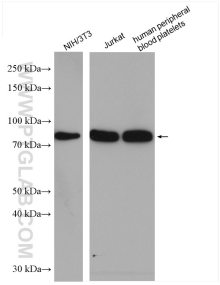
Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family 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. PRKCA 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.

Storage

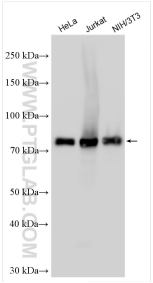
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

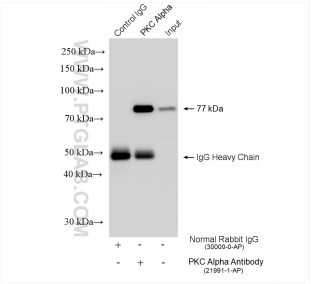
Selected Validation Data



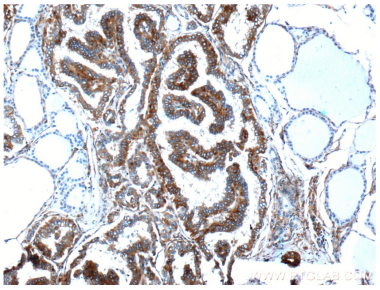
Various lysates were subjected to SDS PAGE followed by western blot with 21991-1-AP (PKC alpha antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.



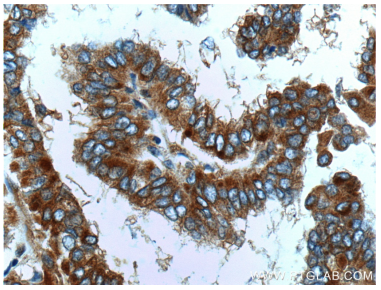
Various lysates were subjected to SDS PAGE followed by western blot with 21991-1-AP (PKC Alpha antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.



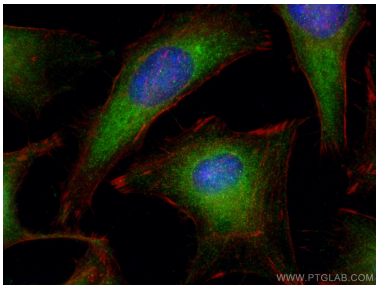
IP result of anti-PKC Alpha (IP:21991-1-AP, 4ug; Detection:21991-1-AP 1:3000) with NIH/3T3 cells lysate 1320 ug. This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.



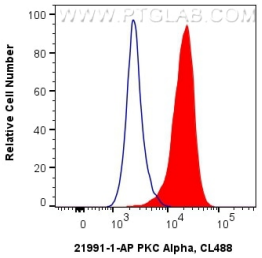
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 21991-1-AP (PKC alpha antibody at dilution of 1:200 (under 10x lens). This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.



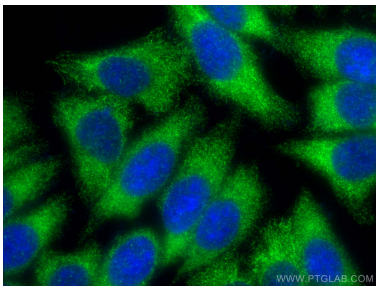
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 21991-1-AP (PKC alpha antibody at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.



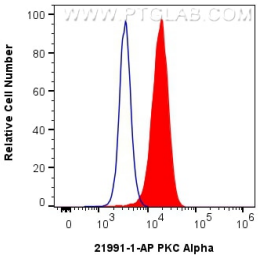
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PKC Alpha antibody (21991-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.



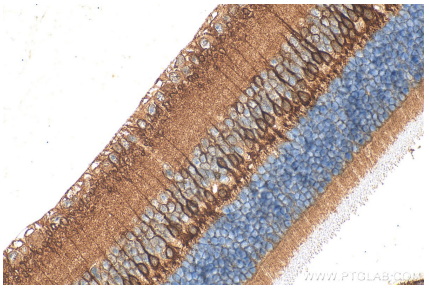
1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human PKC Alpha (21991-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug rabbit IgG isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer. This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.

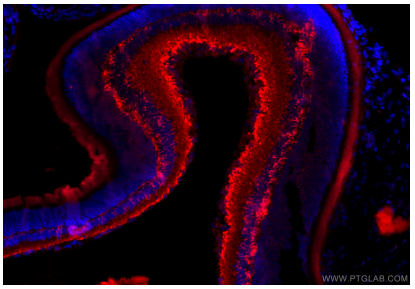


Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PKC Alpha antibody (21991-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.



1x10^6 Jurkat cells were intracellularly stained with 0.25 ug PKC Alpha Polyclonal antibody (21991-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug rabbit IgG isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer. This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.





Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 21991-1-AP (PKC Alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 21991-1-AP (PKC Alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat eye tissue using PKC Alpha antibody (21991-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 21991-1-PBS in a different storage buffer formulation.