For Research Use Only

PKC Iota Monoclonal antibody, PBS Only



Catalog Number:66493-1-PBS

Featured Product

Basic Information

Catalog Number: 66493-1-PBS

GenBank Accession Number:

Purification Method: Protein A purification

GeneID (NCBI):

CloneNo.:

100ug, Concentration: 1mg/ml by

BC022016

3A1B6

Nanodrop:

UNIPROT ID: P41743

Mouse

Full Name:

Isotype: IgG2a

protein kinase C, iota

Immunogen Catalog Number:

Calculated MW: 68 kDa

AG4990

Observed MW:

70 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

The atypical protein kinase C isoform PRKC iota (PRKCI) is a member of the protein kinase C (PKC) family of serine/threonine protein kinases. PKC family comprises at least eight members, which are differentially expressed and are involved in a wide variety of cellular processes. PRKC iota is calcium-independent and phospholipiddependent. 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. PRKC iota plays a key role in cell proliferation, differentiation, and carcinogenesis, and it has been shown to be a human oncogene.

Storage

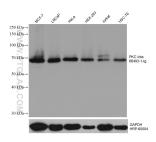
Storage:

Store at -80°C. Storage Buffer:

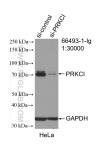
PBS Only

in USA), or 1(312) 455-8498 (outside USA)

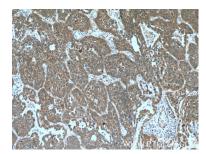
Selected Validation Data



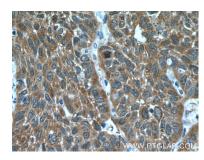
Various lysates were subjected to SDS PAGE followed by western blot with 66493-1-lg (PKC lota antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 66493-1-PBS in a different storage buffer formulation.



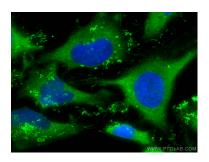
WB result of PKC lota antibody (66493-1-lg; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PKC lota transfected HeLa cells. This data was developed using the same antibody clone with 66493-1-PBS in a different storage buffer formulation.



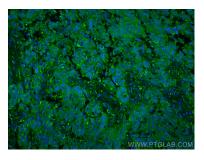
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66493-1-lg (PKC iota antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66493-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66493-1-lg (PKC iota antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66493-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PKC lota antibody (66493-1-lg, Clone: 3A1B6) at dilution of 1:800 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+1). This data was developed using the same antibody clone with 66493-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human lung cancer tissue using PKC lota antibody (66493-1-lg, Clone: 3A1B6) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgC(H+L). This data was developed using the same antibody clone with 66493-1-PBS in a different storage buffer formulation.