

For Research Use Only

CoraLite® Plus 647-conjugated PKC Iota Monoclonal antibody



Catalog Number: CL647-66493

Featured Product

Basic Information

Catalog Number:

CL647-66493

Size:

100ul , Concentration: 1 mg/mL by Nanodrop;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG4990

GenBank Accession Number:

BC022016

GeneID (NCBI):

5584

UNIPROT ID:

P41743

Full Name:

protein kinase C, iota

Calculated MW:

68 kDa

Observed MW:

70 kDa

Purification Method:

Protein A purification

CloneNo.:

3A1B6

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

Species Specificity:

human, mouse, rat

Background Information

The atypical protein kinase C isoform PRKC iota (PRKC1) 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 phospholipid-dependent. It is not activated by phorbol esters 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 -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data