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:

1 mg/mL Source: Mouse Isotype: IgG2a

Immunogen Catalog Number:

AG4990

Calculated MW: 68 kDa Observed MW:

70 kDa

BC022016

5584

P41743

GeneID (NCBI):

UNIPROT ID:

Full Name:

protein kinase C, iota

GenBank Accession Number: **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 (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

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

Selected Validation Data