

For Research Use Only

PKC Iota Recombinant antibody

Catalog Number: 85733-2-RR



Basic Information

Catalog Number: 85733-2-RR	GenBank Accession Number: BC022016	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5584	CloneNo.: 243126A4
Source: Rabbit	UNIPROT ID: P41743	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: protein kinase C, iota	
Immunogen Catalog Number: AG4990	Calculated MW: 68 kDa	
	Observed MW: 67 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, MCF-7 cells, LNCaP cells, HEK-293 cells, Jurkat cells, NIH/3T3 cells
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 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

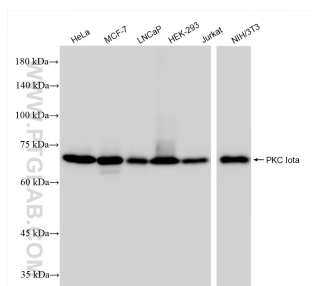
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

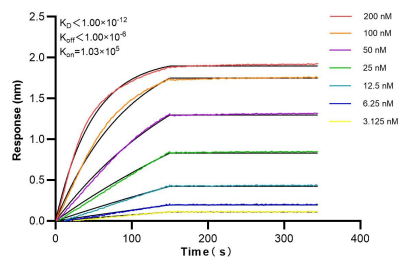
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85733-2-RR (PRKCI antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85733-2-RR against Human PKC Iota were performed. The affinity constant is below 1 pM.