

PRKCQ-Specific Polyclonal antibody

Catalog Number: 19982-1-AP

Basic Information

Catalog Number: 19982-1-AP	GenBank Accession Number: NM_006257	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 µg/ml by Nanodrop;	GeneID (NCBI): 5588	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	Full Name: protein kinase C, theta	
Isotype: IgG	Calculated MW: 82 kDa	
	Observed MW: 72-74 kDa	

Applications

Tested Applications: IP, WB, ELISA	Positive Controls:
Species Specificity: human	WB : Jurkat cells, IP : Jurkat cells, K-562 cells

Background Information

PRKCQ, also named as PRKCT and nPKC-theta, belongs to the protein kinase superfamily, AGC Ser/Thr protein kinase family and PKC subfamily. PRKCQ catalyzes the reaction: ATP + a protein = ADP + a phosphoprotein. PRKCQ is a calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. It is essential for T-cell receptor (TCR)-mediated T-cell activation, but it is dispensable during TCR-dependent thymocyte development. PRKCQ links the TCR signaling complex to the activation of NF-kappa-B in mature T lymphocytes. It is required for interleukin-2 (IL2) production. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters. This antibody is specific to PRKCQ.

Storage

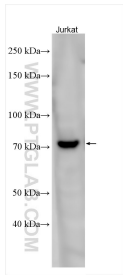
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

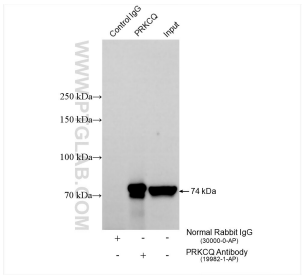
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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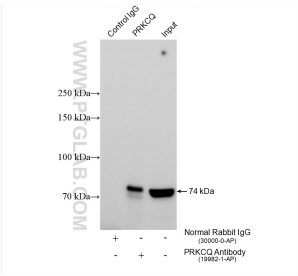
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 19982-1-AP (PRKCQ-Specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-PRKCQ-Specific(IP:19982-1-AP, 4ug; Detection:19982-1-AP 1:500) with Jurkat cells lysate 1400 ug.



IP result of anti-PRKCQ-Specific(IP:19982-1-AP, 4ug; Detection:19982-1-AP 1:500) with K-562 cells lysate 1360 ug.