

For Research Use Only

PRKG1 Recombinant antibody

Catalog Number: 85983-1-RR



Basic Information

Catalog Number: 85983-1-RR	GenBank Accession Number: BC127090	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5592	CloneNo.: 250348B5
Source: Rabbit	UNIPROT ID: Q13976	Recommended Dilutions: WB: 1:2000-1:10000
Isotype: IgG	Full Name: protein kinase, cGMP-dependent, type I	
Immunogen Catalog Number: AG16333	Calculated MW: 686 aa, 78 kDa	
	Observed MW: 65-78 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse kidney tissue, mouse lung tissue, rat lung tissue, mouse brain tissue

Background Information

PRKG1(cGMP-dependent protein kinase 1) is also named as cGK1, PRKG1B, PRKGR1A, PRKGR1B and belongs to the cGMP subfamily. It serves as an integral component of second messenger signaling in a number of biological contexts including cell differentiation, memory, and vasodilation (PMID:21893290). Its activity prevents pathological-level nitric oxide-induced apoptosis and promotes DNA synthesis/cell proliferation in vascular smooth muscle cells (PMID:20060325). PRKG1 has 2 isoforms produced by alternative splicing with the molecular weight of 76 kDa and 78 kDa. The autophosphorylation can increase the kinase activity and it can form a monomer with the molecular weight of 65 kDa that is produced by proteolytic cleavage. SDS-PAGE revealed that proteolysis generated two different monomers with molecular masses of 70 and 68 kDa of CGK1-beta(PMID:8702828).

Storage

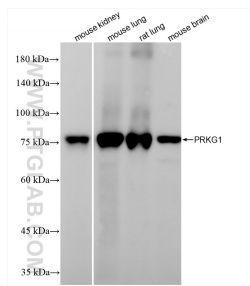
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85983-1-RR (PRKG1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.