

For Research Use Only

# PRKG1 Recombinant antibody, PBS Only

Catalog Number: 85983-1-PBS



## Basic Information

<b>Catalog Number:</b> 85983-1-PBS	<b>GenBank Accession Number:</b> BC127090	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5592	<b>CloneNo.:</b> 250348B5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13976	
<b>Isotype:</b> IgG	<b>Full Name:</b> protein kinase, cGMP-dependent, type I	
<b>Immunogen Catalog Number:</b> AG16333	<b>Calculated MW:</b> 686 aa, 78 kDa	
	<b>Observed MW:</b> 65-78 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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

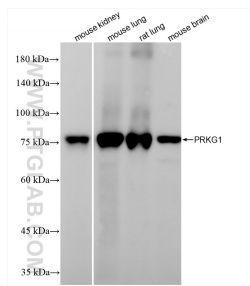
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

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 85983-1-RR (PRKG1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85983-1-PBS in a different storage buffer formulation.