

PRKG1 Recombinant antibody, PBS Only

Catalog Number: 85983-1-PBS

Basic Information

Catalog Number:	85983-1-PBS	GenBank Accession Number:	BC127090	Purification Method:	Protein A purification
Concentration:	1 mg/ml	GeneID (NCBI):	5592	CloneNo.:	250348B5
Source:	Rabbit	UNIPROT ID:	Q13976		
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, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

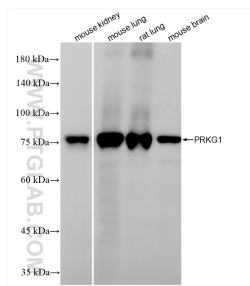
PRKG1(cGMP-dependent protein kinase 1) is also named as cGK1, PRKG1B, PRKGR1A, PRKGR1B and belongs to the cGMP subfamily. It serves as an integral component of second messenger signaling in a number of biological contexts including cell differentiation, memory, and vasodilation (PMID:21893290). Its activity 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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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.