For Research Use Only

PRKG1 Recombinant antibody

Catalog Number:85983-1-RR

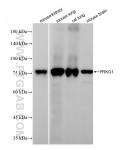


Basic Information	Catalog Number: 85983-1-RR	GenBank Accession Number: BC 127090	Purification Method: Protein A purification	
	Concentration: 1000 µg/ml	GenelD (NCBI): 5592	CloneNo.: 25034885	
	Source: Rabbit	UNIPROT ID: Q13976	Recommended Dilutions: WB: 1:2000-1:10000	
	Isotype: IgG Immunogen Catalog Number: AG16333	IgG protein kinase, cGMP-dependent, type Immunogen Catalog Number:		
Applications	Tested Applications: WB, ELISA Species Specificity: human, mouse, rat	Positive	Controls:	
		WB : mouse kidney tissue, mouse lung tissue, rat lung tissue, mouse brain tissue		
Background Informati	cGMP subfamily. It serves as an in contexts including cell differentia pathological-level nitric oxide-in muscle cells (PMID:20060325). PR 76 kDa and 78 kDa. The autophosp molecular weight of 65 kDa that is	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		

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.