

**DATASHEET**

**PRKG1 Rabbit Polyclonal Antibody**

CAT. NO. APA13648

**KEY FEATURES**

Target	PRKG1	Source / Host	Rabbit
Reactivity	Human, Mouse	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

Serine/threonine protein kinase that acts as a key mediator of the nitric oxide (NO)/cGMP signaling pathway. GMP binding activates PRKG1, which phosphorylates serines and threonines on many cellular proteins. Numerous protein targets for PRKG1 phosphorylation are implicated in modulating cellular calcium, but the contribution of each of these targets may vary substantially among cell types. Proteins that are phosphorylated by PRKG1 regulate platelet activation and adhesion, smooth muscle contraction, cardiac function, gene expression, feedback of the NO-signaling pathway, and other processes involved in several aspects of the CNS like axon guidance, hippocampal and cerebellar learning, circadian rhythm and nociception.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

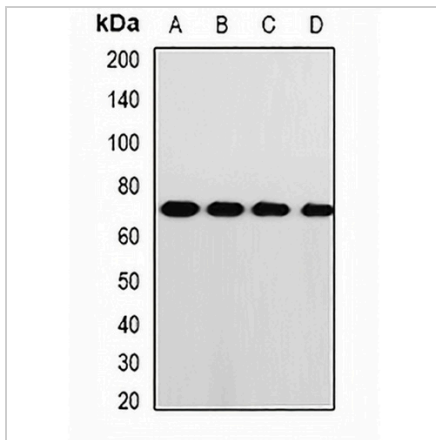
Description	Rabbit polyclonal antibody to PRKG1
Specificity	Recognizes endogenous levels of PRKG1 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human PRKG1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 44; Observed: 65 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	PRKG1B; PRKGR1A; PRKGR1B; cGMP-dependent protein kinase 1; cGK 1; cGK1; cGMP-dependent protein kinase I; cGKI
Gene Symbol	PRKG1
Entrez Gene	5592(Human); 19091(Mouse)
SwissProt	Q13976(Human); P0C605(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of PRKG1 expression in A549 (A), PC3 (B), mouse lung (C), mouse heart (D) whole cell lysates. (Predicted band size: 44; 76; 77 kD; Observed band size: 65 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.