



KGP1 Polyclonal Antibody

Catalog No	YP-Ab-06745
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	PRKG1 PRKG1B PRKGR1A PRKGR1B
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	KGP1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CGKI;cGK1;PRKG1B;EC:2.7.11.12;cGMP-dependent protein kinase I;KGP1; PRKG1 PRKG1B PRKGR1A PRKGR1B;cGMP-dependent protein kinase 1 (cGK 1) (cGK1) (EC 2.7.11.12) (cGMP-dependent protein kinase I) (cGKI)
Observed Band	65-78 kDa
Calculated Molecular Weight	686 aa, 78 kDa
Cell Pathway	Cytoplasm . Colocalized with TRPC7 in the plasma membrane. .
Tissue Specificity	Primarily expressed in lung and placenta.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,similarity:Belongs to the protein kinase superfamily.,
Background	Mammals have three different isoforms of cyclic GMP-dependent protein kinase (Ialpha, Ibeta, and II). These PRKG isoforms act as key mediators of the nitric oxide/cGMP signaling pathway and are important components of many signal transduction processes in diverse cell types. This PRKG1 gene on human chromosome 10 encodes the soluble Ialpha and Ibeta isoforms of PRKG by alternative transcript splicing. A separate gene on human chromosome 4, PRKG2, encodes the membrane-bound PRKG isoform II. The PRKG1 proteins play a central role in regulating cardiovascular and neuronal functions in addition

to relaxing smooth muscle tone, preventing platelet aggregation, and modulating cell growth. This gene is most strongly expressed in all types of smooth muscle, platelets, cerebellar Purkinje cells, hippocampal neurons, and the lateral amygdala. Isoforms lalpha and lbeta have identical cGMP-bindin

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images