

# cGK 2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51450

## Product Information

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Application	WB
Primary Accession	<a href="#">Q13237</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87432

## Additional Information

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Gene ID	5593
Other Names	cGMP-dependent protein kinase 2, cGK 2, cGK2, cGMP-dependent protein kinase II, cGKII, PRKG2, PRKGR2
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	PRKG2
Synonyms	PRKGR2
Function	Crucial regulator of intestinal secretion and bone growth. Phosphorylates and activates CFTR on the plasma membrane. Plays a key role in intestinal secretion by regulating cGMP-dependent translocation of CFTR in jejunum (PubMed: <a href="#">33106379</a> ). Acts downstream of NMDAR to activate the plasma membrane accumulation of GRIA1/GLUR1 in synapse and increase synaptic plasticity. Phosphorylates GRIA1/GLUR1 at Ser-863 (By similarity). Acts as a regulator of gene expression and activator of the extracellular signal-regulated kinases MAPK3/ERK1 and MAPK1/ERK2 in mechanically stimulated osteoblasts. Under fluid shear stress, mediates ERK activation and subsequent induction of FOS, FOSL1/FRA1, FOSL2/FRA2 and FOSB that play a key role in the osteoblast anabolic response to mechanical stimulation (By similarity).
Cellular Location	Apical cell membrane; Lipid-anchor
Tissue Location	Highly concentrated in brain, lung and intestinal mucosa

## References

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Orstavik S.,et al.Biochem. Biophys. Res. Commun. 220:759-765(1996).  
Fujii M.,et al.FEBS Lett. 375:263-267(1995).  
Witczak O.,et al.Biochem. Biophys. Res. Commun. 245:113-119(1998).  
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Greenman C.,et al.Nature 446:153-158(2007).

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