

cGKII Polyclonal Antibody
Catalog # AP69074**Specification****cGKII Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	Q13237
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

cGKII Polyclonal Antibody - Additional Information**Gene ID 5593****Other Names**

PRKG2; PRKGR2; cGMP-dependent protein kinase 2; cGK 2; cGK2; cGMP-dependent protein kinase II; cGKII

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

cGKII Polyclonal Antibody - Protein Information**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:[33106379](http://www.uniprot.org/citations/33106379)). 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

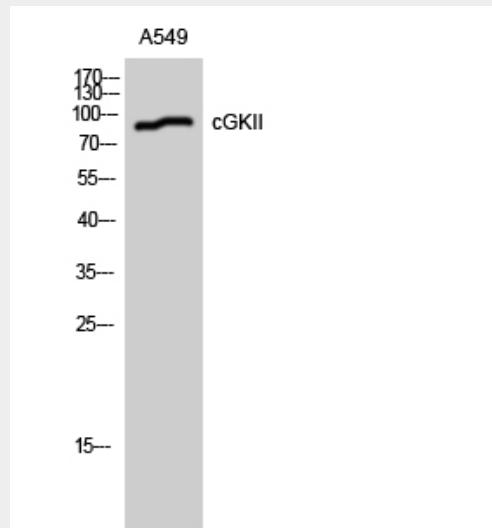
Tissue Location

Highly concentrated in brain, lung and intestinal mucosa

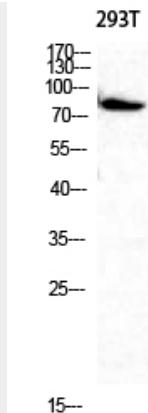
cGKII Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

cGKII Polyclonal Antibody - Images

Western Blot analysis of A549 cells using cGKII Polyclonal Antibody diluted at 1:1000



Western Blot analysis of 293T cells using cGKII Polyclonal Antibody diluted at 1:1000

cGKII Polyclonal Antibody - Background

Crucial regulator of intestinal secretion and bone growth (By similarity). Phosphorylates and activates CFTR on the plasma membrane. Plays a key role in intestinal secretion by regulating cGMP-dependent translocation of CFTR in jejunum (By similarity). 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 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).