

cGK 2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51450**Specification**

cGK 2 Antibody - Product Information

Application	WB, E
Primary Accession	Q13237
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87 KDa

cGK 2 Antibody - Additional Information**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

E~~N/A

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

cGK 2 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). 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

cGK 2 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](#)

cGK 2 Antibody - Images**cGK 2 Antibody - References**

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Witczak O.,et al.Biochem. Biophys. Res. Commun. 245:113-119(1998).
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