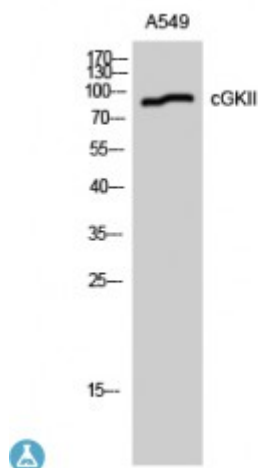


Anti-cGKII antibody



Description	Rabbit polyclonal to cGKII.
Model	STJ92256
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human cGKII around the non-phosphorylation site of S126.
Immunogen Region	70-150 aa
Gene ID	5593
Gene Symbol	PRKG2
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
Specificity	cGKII Polyclonal Antibody detects endogenous levels of cGKII protein.
Tissue Specificity	Highly concentrated in brain, lung and intestinal mucosa.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	cGMP-dependent protein kinase 2 cGK 2 cGK2 cGMP-dependent protein kinase II cGKII
Molecular Weight	87 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:94160MIM:601591
Alternative Names	cGMP-dependent protein kinase 2 cGK 2 cGK2 cGMP-dependent protein kinase II cGKII
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 . 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 . 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 .
Cellular Localization	Apical cell membrane
Post-translational Modifications	Myristoylation mediates membrane localization.