

Anti-GRK 4 antibody



Description	Rabbit polyclonal to GRK 4.
Model	STJ93434
Host	Rabbit
Reactivity	Human
Applications	ELISA, IHC
Immunogen	Synthesized peptide derived from human GRK 4
Immunogen Region	10-90 aa, N-terminal
Gene ID	2868
Gene Symbol	GRK4
Dilution range	IHC 1:100-1:300ELISA 1:40000
Specificity	GRK 4 Polyclonal Antibody detects endogenous levels of GRK 4 protein.
Tissue Specificity	Isoform 1, isoform 2, isoform 3, and isoform 4 are expressed in testis. Isoform 4 is expressed in myometrium.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	G protein-coupled receptor kinase 4 G protein-coupled receptor kinase GRK4 ITI1
Molecular Weight	66.583 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:4543OMIM:137026
Alternative Names	G protein-coupled receptor kinase 4 G protein-coupled receptor kinase GRK4 ITI1
Function	Specifically phosphorylates the activated forms of G protein-coupled receptors. GRK4-alpha can phosphorylate rhodopsin and its activity is inhibited by calmodulin; the other three isoforms do not phosphorylate rhodopsin and do not interact with calmodulin. GRK4-alpha and GRK4-gamma phosphorylate DRD3. Phosphorylates ADRB2.
Cellular Localization	Cytoplasm. Cytoplasm, cell cortex. Both at the cell surface and dispersed in the cytoplasm under basal conditions. Receptor stimulation results in the internalization of GRK4 to the perinuclear area, where colocalization with DRD3 is observed strongly at 5 and 15 minutes. DRD3 and GRK4 colocalize in lipid rafts of renal proximal tubule cells.
Post-translational Modifications	Palmitoylated.