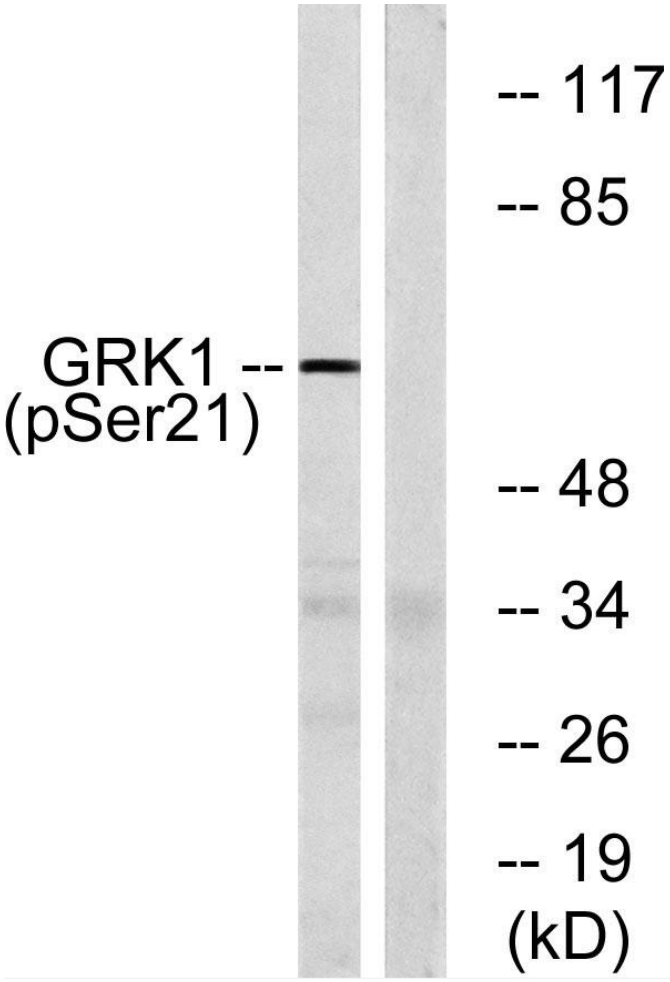
GRK 1 (phospho Ser21) Monoclonal Antibody

Catalog No	BYmab-14480
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB
Gene Name	GRK1
Protein Name	Rhodopsin kinase
Immunogen	The antiserum was produced against synthesized peptide derived from human GRK1 around the phosphorylation site of Ser21. AA range:6-55
Specificity	Phospho-GRK 1 (S21) Monoclonal Antibody detects endogenous levels of GRK 1 protein only when phosphorylated at S21.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GRK1; RHOK; Rhodopsin kinase; RK; G protein-coupled receptor kinase 1
Observed Band	63kD
Cell Pathway	Membrane ; Lipid-anchor . Cell projection, cilium, photoreceptor outer segment . Subcellular location is not affected by light or dark conditions. .
Tissue Specificity	Retinal-specific. Expressed in rods and cones cells.
Function	catalytic activity:ATP + [rhodopsin] = ADP + [rhodopsin] phosphate.,disease:Defects in GRK1 are a cause of congenital stationary night blindness Oguchi type (CSNBO) [MIM:258100]; also known as Oguchi disease. Congenital stationary night blindness is a non-progressive retinal disorder characterized by impaired night vision. CSNBO is an autosomal recessive form associated with fundus discoloration and abnormally slow dark adaptation.,function:Phosphorylates rhodopsin thereby initiating its deactivation.,online information:Retina International's Scientific Newsletter,PTM:Autophosphorylated.,PTM:Farnesylation is required for full activity.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily.,similarity:Contains 1 AGC-kinase C-terminal

	domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 RGS domain.,tissue specificity:R
Background	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. The protein phosphorylates rhodopsin and initiates its deactivation. Defects in GRK1 are known to cause Oguchi disease 2 (also known as stationary night blindness Oguchi type-2). [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using GRK 1 (phospho Ser21) Monoclonal Antibody