Product Name: **GRK 1 (phospho Ser21) Rabbit Polyclonal Antibody**
Catalog #: **APRab04748**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat,Monkey
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000
Molecular Weight	63kDa

Antigen Information

Gene Name	GRK1
Alternative Names	GRK1; RHOK; Rhodopsin kinase; RK; G protein-coupled receptor kinase 1
Gene ID	6011.0
SwissProt ID	Q15835
Immunogen	The antiserum was produced against synthesized peptide derived from human GRK1 around the phosphorylation site of Ser21. AA range:6-55

Background

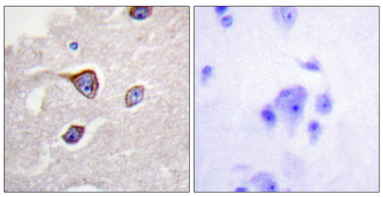
This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the

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],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:Retina and pineal gland.,

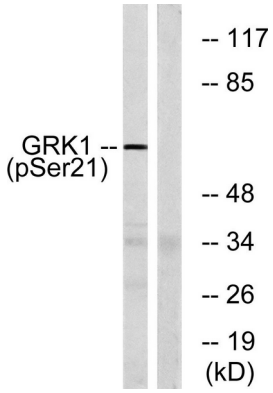
Research Area

Chemokine;Endocytosis;

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain, using GRK1 （Phospho-Ser21） Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with TNF 20ng/ml 5 ', using GRK1 （Phospho-Ser21） Antibody. The lane on the right is blocked with the phospho peptide.