**Product Name: GRK 1 (phospho Ser21) Rabbit Polyclonal Antibody**
**Catalog #: APRab04748**

## Summary

| | |
|---|---|
| **Production Name** | GRK 1 (phospho Ser21) Rabbit Polyclonal Antibody |
| **Description** | Rabbit Polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | WB,IHC,ELISA |
| **Reactivity** | Human,Mouse,Rat,Monkey |

## Performance

| | |
|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Phospho Antibody |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Immunogen

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

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. |
| **Molecular Weight** | 63kD |

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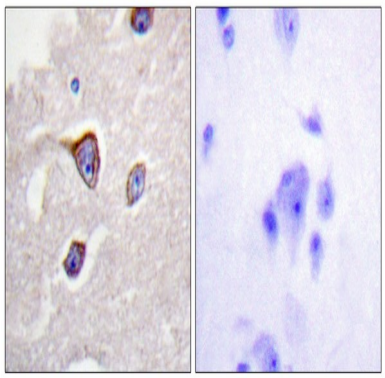
## Background

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.

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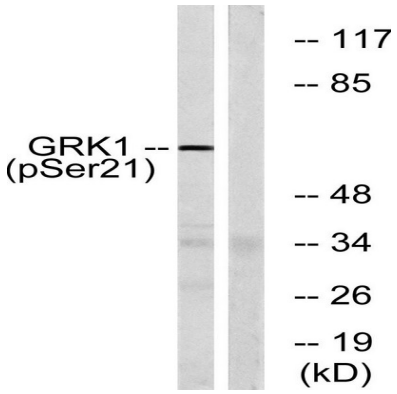


Western blot analysis of lysates from COS7 cells treated with TNF 20ng/ml 5 ', using GRK1 (Phospho-Ser21) Antibody. The lane on the right is blocked with the phospho peptide.

## Note

For research use only.